CONTENTS OF SUPPLEMENT.

PERSONAL 65
Obituary 65
ENGINEERING SOCIETIES. 65
Coming Technical Meetings 65
NEW PUBLICATIONS 66
Trade Publications 66
CONSTRUCTION NEWS:
Condensed List of Contracts Pending 66
Railways 67
Street and Electric Railways 67
Electric Light and Power 68
Bridges 68
Buildings 69
Water-Works 69
Irrigation 70
Sewerage 70
Garbage Disposal and Street Cleaning 70
Streets and Roads 70
Manufacturing Plants 71
Gas Plants 71
Miscellaneous Contracts 71
Contract Prices 72
Engineering Material Prices 72
INDUSTRIAL NOTES 72

PERSONAL.

Mr. Charles H. Schenck, President pro tem. of the New Orleans Levee Board, New Orleans, La., has resigned.

Mr. Frank J. Illig has been appointed Superintendent of the Water Bureau, of Buffalo, N. Y., to succeed Col. Francis G. Ward.

Mr. E. J. Roberts, Chief Engineer of the Spokane Falls & Northern Ry., with headquarters at Spokane, Wash., has resigned.

Prof. Edward Orton, State Geologist of Ohio, has been elected President of the American Association for the Advancement of Science.

Mr. H. R. Hobart, who has been for 23 years a member of the editorial staff of the "Railway Age," of Chicago, has resigned his position.

Mr. George F. Becker, of the U. S. Geological Survey, has been sent to the Philippine Islands as an expert on geological formation for the purpose of studying the mineral deposits.

Prof. Mark V. Slingerland, Assistant Entomologist of the College of Agriculture, Cornell University, Ithaca, N. Y., has been appointed State Entomologist of New York, to succeed Dr. J. A. Lintner.

Mr. Charles A. Hague, M. Am. Soc. C. E., consulting engineer, 39 Cortlandt St., New York, has been selected by the City Council of Camden, N. J., to make a test of the water-works of Camden.

Mr. C. C. Riley, Superintendent of Car Service of the Baltimore & Ohio Southwestern Ry., with headquarters at Cincinnati, O., has been promoted to the newly created position of Superintendent of Transportation, and his former position has been abolished.

Mr. David E. McComb, M. Am. Soc. C. E., Superintendent of Sewers, Washington, D. C., has been ordered to visit Boston, Mass.; Montreal, Que.; Chicago, Ill., and Milwaukee, Wis., to examine works in connection with the preparation of plans for the pumping station for the sewage disposal system of his city.

Mr. F. E. Drake, Assistant Manager of the Walker Co., Cleveland, O., has been appointed Special Mechanical and Electrical Adviser to Mr. Ferdinand W. Peck, Commissioner-General to the Paris Exposition of 1900. His duties will be to secure an adequate representation of American manufactures in both the mechanical and electrical fields, with a view to the development and increase of American export trade. He will sail from New York for France in company with Mr. Peck and staff on the steamer "La Touraine," Sept. 3, and expects to return to this country about the middle of October, when he will resume his duties with the Walker Co.

OBITUARY.

Mr. Philip A. Jackson, City Engineer, of Dorchester, Mass., died last week.

Mr. Frank W. Brown, of the firm of Brown Brothers, bridge and railway contractors, of Elizabeth, N. J., died Aug. 27, aged 80.

Mr. Martin L. Saulsbury, Civil Engineer, of Ridgley, Md., died Aug. 22, aged 26. He was a graduate of Lehigh University, South Bethlehem, Pa., in the class of 1893.

Mr. John Coon, junior member of the firm of Hammond & Coon, proprietors of the Lake Erie Boiler Works, Buffalo, N. Y., died Aug. 23, aged 53. He was also the Secretary of the Lake Erie Engineering Works.

Mr. Henry Mason, formerly Superintendent of the Quintard Iron Works, New York, died at his home in Brooklyn Aug. 27, aged 69. He was born in Newcastle-on-Tyne, England, and came to this country when 10 years of age. He entered the engineering department of the Quintard Iron Works in 1858, and was Superintendent for many years, being in charge of the installation of the engines and boilers of the ill-fated U. S. battleship "Maine."

Mr. James McCloskey, Manager of the firm of L. J. McCloskey & Co., Philadelphia, Pa., varnish manufacturers, died at Belmar, N. J., July 28, aged 68. He was one of the earliest pioneers in the mineral paint industry in this country, and in 1868 established a large paint factory in Philadelphia. In 1877 he organized a branch in that city of Berry Bros., Detroit, varnish makers, and was the manager of it for 19 years, resigning to take the position which he held at the time of his death.

Dr. John Hopkinson, the well-known English electrical engineer, and his son and two daughters were killed last week while ascending, without guides, a mountain in the canton of Valais, Switzerland. Dr. Hopkinson had intended starting for New York on Sept. 28 on business in connection with a syndicate which he was forming for the purpose of developing some of his recent inventions. Besides receiving the degrees of M. A. and D. Sc., Dr. Hopkinson was a Fellow of the Royal Society, a member of the Institute of Civil Engineers and a member of the Institute of Electrical Engineers. At different times he received the Telford Medal and Telford Premium of the Institute of Civil Engineers for valuable contributions to science. He was also a contributor to the Proceedings of the other societies, and the author of "Papers on Dynamo Electric Machinery." To electrical engineers he is perhaps best known as the author of the "Hopkinson Method" of dynamo testing.

Col. Sir Casimir Stanislaus Gzowski, M. Am. Soc. C. E., of Toronto, Ont., died at his residence, The Hall, in that city, Aug. 24. He was born in St. Petersburg, Russia, March 5, 1813, and his father was Count Gzowski, a Polish nobleman, an officer in the Imperial Guard. Sir Casimir was placed in the military college at Kremnitz at the age of nine, and remained there until 1830, when he received a commission in the engineering branch of the Imperial service. When the Polish rebellion against the Emperor Constantine broke out in 1831 he resigned his commission and joined the insurgents. The rebellion failed, and he, with many other officers, was exiled. He came to the United States, reaching New York in 1833 with but $40 in money and an entire ignorance of the English language. He began the study of it at once, however, supporting himself meanwhile by teaching French, Italian and German. Afterwards he went to Pittsfield, Mass., where he studied law, thinking that he would thus master the English most essential to the practice of engineering. In 1837 he was admitted to the bar in Pennsylvania. After four years in the practice of law he went to Toronto, Ont., and was engaged as an engineer by the Department of Public Works. For six years he held the position of Superintending Engineer of Roads and Harbors in Western Ontario. From 1850 to 1853 he was engineer of the harbor works at Montreal, Que., and Consulting Engineer of the ship canal improvement between that city and Quebec. He next became Chief Engineer of the St. Lawrence & Atlantic Ry., now part of the Grand Trunk system. He resigned this position to enter into partnership with Sir A. T. Galt, the late Hon. Luther H. Holton and the late Sir David Macpherson for the construction of the Grand Trunk Ry. from Toronto to Sarnia. In 1857 Sir Casimir and Sir David established the Toronto Rolling Mills for the manufacture of rails and other railway material. In 1870 he was appointed a member of a commission to inquire into the water communications of the Dominion, and in 1871 the firm of Gzowski & Macpherson constructed the international suspension bridge over the Niagara River. Sir Casimir was the engineer in charge of this work, and the same year was called upon to report on the enlargement of the Welland Canal, and also upon the Baie Verte canal scheme. He was the first President of the Canadian Society of Civil Engineers, of which he was elected a member Jan. 20, 1887, and was also the first Chairman of the Niagara Falls Park Commission. He was President of the Corporation of Wycliffe College. In 1872 he was made a Lieutenant-Colonel, in 1879 a Colonel and in the same year an honorary Aide-de-camp to the Queen. In 1890, in recognition of valuable services rendered to the Dominion of Canada, he was created a Knight Commander of St. Michael and St. George. He was elected a member of the American Society of Civil Engineers Dec. 2, 1868.

ENGINEERING SOCIETIES.

COMING TECHNICAL MEETINGS.

GERMAN-AMERICAN TECHNICAL SOCIETY.
Sept. 3-7. Annual meeting, Philadelphia Section, Reading, Pa. Secy., A. Schumann, 532 North 4th St., Philadelphia, Pa.

ENGINEERS' SOCIETY OF WESTERN NEW YORK.
Sept. 5. Secy., H. J. March, Library Bldg., Buffalo, N. Y.

AMERICAN STREET RAILWAY ASSOCIATION.
Sept. 6-9. Annual convention, Boston, Mass. Secy., T. C. Pennington, 2020 State St., Chicago, Ill.

AMERICAN SOCIETY OF CIVIL ENGINEERS.
Sept. 7. Secy., C. W. Hunt, 220 W. 57th St., New York city.

CENTRAL RAILWAY CLUB.
Sept. 9. Secy., H. D. Vought, 114 5th Ave., New York city.

MONTANA SOCIETY OF ENGINEERS.
Sept. 10. Secy., A. S. Hovey, National Bank Bldg., Helena, Mont.

THE LOUISIANA ENGINEERING SOCIETY.
Sept. 12. "Evolution of Structural Design," F. T. Llewllyn. Secy., J. F. Coleman, 712 Union St., New Orleans, La.

ASSOCIATION OF EDISON ILLUMINATING COMPANIES.
Sept. 12-13. Annual meeting, Sault Ste. Marie, Mich. Secy., Wilson S. Howell, Newark, N. J.

NORTHWEST RAILWAY CLUB.
Sept. 13. Secy., T. A. Foque, Soo Line, Minneapolis, Minn.

CIVIL ENGINEERS' CLUB OF CLEVELAND.
Sept. 13. Secy., Wm. H. Searles, Case Library Bldg., Cleveland, O.

NEW YORK STATE STREET RAILWAY ASSOCIATION.
Sept. 13-14. Annual meeting, Brooklyn, N. Y. Secy., H. A. Robinson, New York city.

DENVER SOCIETY OF CIVIL ENGINEERS.
Sept. 13. Secy., W. B. Lawson, 36 Jacobson Bldg., Denver, Colo.

THE RAILWAY SIGNALING CLUB.
Sept. 13. Secy., Earl M. Seitz, C. & N. W. Ry., Chicago, Ill.

ENGINEERS' CLUB OF CINCINNATI.
Sept. 15. Secy., J. F. Wilson, P. O. Box 333, Cincinnati, O.

BROOKLYN ENGINEERS' CLUB.
Sept. 15. Secy., A. J. Prevost, Jr., 191 Montague St., Brooklyn, N. Y.

NORTHWESTERN TRACK AND BRIDGE ASSOCIATION.
Sept. 16. D. W. Meeker, St. Paul, Minn.

ENGINEERS' CLUB OF PHILADELPHIA.
Sept. 17. Secy., L. F. Rondinella, 1122 Girard St., Philadelphia, Pa.

ENGINEERS' CLUB OF COLUMBUS.
Sept. 17. Secy., H. M. Gates, 12½ North High St., Columbus, O.

ENGINEERS' CLUB OF MINNEAPOLIS.
Sept. 19. Secy., H. E. Smith, 1620 S. E. 4th St., Minneapolis, Minn.

ENGINEERS' AND ARCHITECTS' CLUB OF LOUISVILLE.
Sept. 19. Secy., Marshall Morris, 16 Norton Bldg., Louisville, Ky.

ENGINEERS' SOCIETY OF WESTERN PENNSYLVANIA.
Sept. 20. Secy., R. A. Fessenden, 410 Penn Ave., Pittsburg, Pa.

BOSTON SOCIETY OF CIVIL ENGINEERS.
Sept. 21. Secy., S. E. Tinkham, City Hall, Boston, Mass.

WESTERN FOUNDRYMEN'S ASSOCIATION.
Sept. 21. Secy., B. M. Gardner, 1522 Monadnock Block, Chicago, Ill.

ENGINEERS' CLUB OF ST. LOUIS.
Sept. 21. Secy., Richard McCulloch, 2401 N. Spring Ave., St. Louis, Mo.

CENTRAL STATES WATER-WORKS ASSOCIATION.
Sept. 27-29. Annual meeting, Springfield, O. Secy., John Fisher, 11 Riley St., Hamilton, O.

CIVIL ENGINEERS' SOCIETY OF ST. PAUL.
Oct. 3. Secy., C. L. Annan, City Engineers' Office, St. Paul, Minn.

CHICAGO ELECTRICAL ASSOCIATION.
Oct. 7. Secy., J. R. Cravath, 825 Monadnock Block, Chicago, Ill.

AMERICAN SOCIETY OF MUNICIPAL IMPROVEMENT.
Oct. 12. Annual meeting, Washington, D. C. Secy., D. L. Fulton, Bureau of Highways and Sewers, Allegheny, Pa.

AMERICAN INSTITUTE OF MINING ENGINEERS.
Oct. 18. Annual meeting, Buffalo, N. Y. Secy., R. W. Raymond, P. O. Box 223, New York city.

PENNSYLVANIA STREET RAILWAY ASSOCIATION.
Oct. 19-20. Annual meeting, Scranton, Pa. Secy., S. P. Light, Lebanon, Pa.

MASTER CAR BUILDERS' ASSOCIATION.—In accordance with the recommendations of the Committee on Prices, approved by the Association at the convention held June, 1898, Secretary Jno. W. Cloud has just issued a circular giving the weights of M. C. B. couplers and coupler parts, as reported by manufacturers.

ILLINOIS TELEPHONE ASSOCIATION.—A meeting of this association will be held Sept. 28-29 at Du Quoin. Among the papers to be presented the following are of general interest: "Past, Present and Future Apparatus," P. J. Hertz; "The Evolution of the Telephone Signal," H. P. Clausen; "Growth and Development of the Telephone Business in the State of Illinois Within the Last Three Years," A. M. Howell; "Progress of the Independent Telephone Business in the West Outside of the State of Illinois," James S. Cuming.

INTERNATIONAL ACETYLENE ASSOCIATION.—At a recent meeting of manufacturers of generators of acetylene gas a society was formed to unite the manufacturers of acetylene apparatus and calcium carbide. A constitution was adopted and officers elected. It was decided that the principal office should be in Chicago and that meetings should be held in January and July of each year. The following were selected for 1898: Pres., George Landis Wilson, Chicago; Vice-President, J. W. Earl, Minneapolis, Minn.; Secy., J. B. Carroll, Chicago; Treas., C. D. Moody, Louisville, Ky.; Directors, George F. Owen, Grand Rapids, Mich.; I. R. Barton, Batavia, N. Y.; Charles J. Wangler, St. Louis, Mo.

THE LAKE SUPERIOR MINING INSTITUTE.—The 5th annual meeting of this society was held at Ironwood, Mich., Aug. 16-18. Much of the time was devoted to visiting points of engineering interest in the vicinity. During the business sessions several papers of special interest to mining engineers were read.

Officers for the ensuing year were elected as follows: Pres., Wm. Kelly, Vulcan, Mich.; Vice-Presidents, J. B. Cooper, Lake Linden, Mich.; W. Fitch, Beacon, Mich.; E. F. Brown, Iron Mountain, Mich.; Geo. H. Abeel, Hurley, Wis.; Edwin Ball, Soudan, Minn.; Treas., A. J. Youngbluth, Ishpeming, Mich.; Secy., F. W. Denton, Minneapolis, Minn.

OHIO ELECTRIC LIGHT ASSOCIATION.—The 4th annual convention of this association was held on Aug. 18-19 at Sandusky, Ohio. The usual routine business was transacted, after which President H. K. Wood read his address. In this he advised that the companies use all their influence to oppose the growth of municipal ownership. At the afternoon session a paper entitled "Positive and Negative Economies in the Operation of Small Electric Light Plants" was presented by Mr. E. P. Roberts, Cleveland, Ohio. In this the question was considered from the standpoint of an existing plant and it was claimed that many plants could reduce operating expenses from 10 to 20% by considering such details as tightness of belts, pulleys out of line, leakage of engine valves and poor adjustment. The keeping of accurate records was advised.

Mr. M. E. Turner, Cleveland, O., also presented a paper on "Some Suggestions Relative to Determining the Cost of Electrical Supply," which was a discussion of the Weight Demand System and a consideration of what made up the cost of current production.

The following morning's session was devoted to two papers and their discussion. The first, by Mr. Caryl D. Hastin, entitled "The Meters' Relation to the Dividend,"

which considered the selection and installation of meters and such points as testing, cleaning, inspecting, etc.; the second, by Mr. J. H. Perkins, on "Comparative Commercial Qualities of Old and Modern Transformers as Applied to an Exchange." This paper was a discussion of the various losses in a transformer and its regulation, and it was pointed out that a marked saving resulted from the replacing of a number of small transformers by a few larger ones.

Mr. E. J. Berg presented at the afternoon session a paper on "Long Distance Transmission of Power," which argued against the use of multiphase systems of transmission, except for cases where the distance between generating and consuming stations was large enough to demand the highest voltages at present possible. The single phase and monocyclic systems were considered by him preferable, generally speaking. Regarding periodicity he favored 60 or 125-cycle for lighting distribution, although for motor service or rotary converters lower periodicity gave good results.

In response to questions it was stated by Mr. Scovil that the advantages of the enclosed arc over the open were a saving of labor and carbon besides a steadier light. He understood that the Boston Electric Light Co. saved about $10 per year per lamp by their use.

The candle-power of an arc lamp could, according to Mr. E. P. Roberts, be accurately determined by a portable photometer, but the method was too inconvenient for practice.

Other questions were briefly considered, after which Cleveland was announced as the meeting place for next year. Officers for the ensuing year were elected at the morning session as follows: Pres., Emil C. Schmidt, Sandusky; Vice-Pres., B. P. Holmes, Youngstown; Secy. and Treas., Samuel Scovil, Cleveland.

NEW PUBLICATIONS.

ADDRESSES ON RAILWAY SUBJECTS AT PURDUE UNIVERSITY.—Published by the University, Lafayette, Ind. Nine pamphlets, 5¼ × 7½ ins.; paper.

These pamphlets contain nine of the eleven addresses or railway subjects delivered before the students of the university during the school year, 1896-97. The following is a list of the subjects: "Problems in the Management of a Railway System," John T. Brooks, Pennsylvania Lines; "The Past, Present and Future of American Railways," Melville E. Ingalls, C., C. C. & St. L. Ry.; "The Mutual Obligations of Railway Corporations and the Public," John W. Noble; "Relation of Railways to the State," Addison C. Harris; "Railways and Their Servants," Addison C. Harris; "Business Problems of the Motive Power Department," Robert Quayle, C. & N. W. Ry.; "Railway Signaling," Frederic A. Delano, C., B. & Q. Ry.; "Car Designing and Construction," Arthur M. Waitt, L. S. & M. S. Ry.

REVIEW OF WORLD'S COMMERCE.—Introductory to Commercial Relations of the United States with Foreign Countries During the Years 1896-1897. Department of State, Washington. Paper; 9 × 5¾ ins.; pp. 284.

This is a compilation of the annual reports of U. S. Consular officers on the industries and commerce of their respective districts. It includes special reports upon trade conditions in these countries, noting those conditions favorable to an extension of our own trade, or pointing out disadvantages and hindrance to such trade. While the general statistics are given for all countries with which we have dealings, the commerce of Asia and that of the Pacific Islands is especially discussed.

BEESON'S MARINE DIRECTORY.—By Harvey C. Beeson, Royal Insurance Building, Chicago, Ill. Cloth, 8vo.; pp. 258.

This is the eleventh annual edition of this directory of the shipping interests of the Great Lakes. It contains lists of all the sailing and steam vessels on the lakes, with particulars of their dimensions, engines, builders and owners, and also lists of U. S. courts and marshals, vessel owners, vessels lost during the year, and particulars as to lake commerce, steamship inspection, pilot rules, canal rates and regulations, etc. There is also a lengthy classified directory of ship and engine builders, manufacturers and dealers in supplies, contractors for dredging and pier work, etc., etc. About 28 pages are devoted to an alphabetical descriptive list of the lake ports, giving the population, principal industries, traffic, transportation lines, etc. A number of half-tone illustrations of ships, engines, harbor views, etc., are distributed through the volume, and the advertising pages include numerous and varied industries.

TRADE OF PUERTO RICO.—By Frank H. Hitchcock, Chief, Section of Foreign Markets, U. S. Department of Agriculture. Bulletin No. 13. Government Printing Office, Washington, D. C. Pamph.; 6 × 9 ins.; pp. 84.

The probability that Puerto Rico (why not Porto Rico?) will soon be part of the territory of the United States makes the publication of this pamphlet a timely one. For the years 1887-91 the average annual imports were $14,412,345, and exports $10,548,872. For the years 1892-96 the annual average imports were $17,480,494, and exports $16,390,041. In the first of these periods, of the combined import and export trade, the United States obtained 25.78%, and Spain 25.58%. In the second Spain obtained 28.80%, and the United States only 19.45%. It is safe to predict that these figures will be greatly changed in the next five years. Of the imports in 1895 42.6% were agricultural, and 57.4% non-agricultural. Of the exports 96% were agricultural. The agricultural imports are chiefly rice, wheat flour and hog products. Of the exports, coffee and sugar form the great bulk, coffee amounting to over $9,000,000 in 1895.

TRADE PUBLICATIONS.

(The standard sizes for pamphlets and trade catalogues recommended by all the principal engineering societies of the United States are: 3 1-2 x 6 ins.; 6 x 9 ins., and 9 x 12 ins.)

ELECTRICITY FOR MACHINE DRIVING.—Westinghouse Electric & Mfg. Co., Pittsburg, Pa. Pamph.; 6 × 9 ins.; illustrated.

This brochure is intended to point out a few of the advantages secured by the use of motors directly connected to various machines.

HOW TO SELECT A DYNAMO.—Walker Co., Cleveland, O. Circular.

This is circular No. 1,079 of the regular Walker series, and supersedes No. 1,049. As the title implies, it outlines the salient features of a good dynamo. The manner in which the Walker generators fit these requirements is pointed out.

ELECTRIC POWER MACHINERY. — Crocker-Wheeler Electric Co., Ampere, N. J. Pamph.; 7½ × 10 ins.; illustrated.

This is a remarkably well illustrated circular, in which the various types of generators and motors manufactured by the Crocker-Wheeler Co. are shown. The illustrations are accompanied by suitable descriptive paragraphs.

POWER PUMPS.—The Goulds Mfg. Co., 16 Murray St., New York city. Pamph.; 8 × 7¼ ins.; pp. 36; illustrated.

This pamphlet makes no attempt to describe in detail any of the machinery manufactured by the company, and is simply a series of illustrations of pumping plants installed throughout the country, accompanied in each case by a brief description.

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

Bids to be opened.	Work.	Place.	See Eng. News.
Sept. 1.	Electric plant,	Abilene, Kan.	Aug. 18
Sept. 1.	Water pump,	Gloucester City, N. J.	Aug. 18
	Advertised, Eng. News, Aug. 18 and 25.		
Sept. 1.	Filter plant, etc.,	Louisville, Ky.	Aug. 18
Sept. 1.	Heating, ventilating, etc.,	Lexington, Ky.	Aug. 18
	Advertised, Eng. News, Aug. 18 and 25.		
Sept. 1.	Sewerage system,	Clinton, Mass.	Aug. 18
	Advertised Eng. News, Aug. 18 and 25.		
Sept. 1.	Drainage system,	Savannah, Ga.	June 30
	Advertised, Eng. News, June 23 to Aug. 25.		
Sept. 1.	Electric light plant,	Cullman, Ala.	July 21
Sept. 1.	Water-works,	Norwood, N. Y.	July 21
Sept. 1.	Bridges,	Johnsonburg, Pa.	Aug. 4
	Advertised, Eng. News, Aug. 4 and 11.		
Sept. 1.	Water-works,	Mobile, Ala.	Aug. 4
	Advertised, Eng. News, Aug. 4 to 25.		
Sept. 1.	Electric lighting,	Paris, Tex.	Aug. 11
	Advertised, Eng. News, Aug. 11 to 25.		
Sept. 1.	Dam, power house, etc.,	Jackson, Mich.	Aug. 11
	Advertised, Engineering News, Aug. 11.		
Sept. 1.	Water gate (7 ft.),	Chicago, Ill.	Aug. 25
Sept. 1.	State road (2 miles),	Schenectady, N. Y.	Aug. 25
Sept. 1.	Brick paving, Coldwater,	Mich.	Aug. 25
Sept. 1.	Paving,	Gloucester City, N. J.	Sept. 1
Sept. 1.	Asphalt paving,	Scranton, Pa.	Sept. 1
Sept. 2.	Electric lighting,	Prospect Park, Pa.	Sept. 1
Sept. 2.	Highway,	Pepperell, Mass.	Sept. 1
Sept. 2.	Sewers,	Providence, R. I.	Sept. 1
Sept. 2.	Pipe sewers,	Mercer, Pa.	Sept. 1
Sept. 2.	Asphalt paving,	Lowell, Mass.	Sept. 1
Sept. 2.	Bicycle path,	Buffalo, N. Y.	Sept. 1
Sept. 2.	School building,	Rosedale, Kan.	Sept. 1
Sept. 2.	Street work,	Cincinnati, O.	Sept. 1
Sept. 2.	Street impvmts (two contracts)	Leipsic, O.	Sept. 1
Sept. 2.	Brick sidewalks, etc.,	Richmond, Ind.	Sept. 1
Sept. 2.	Electric lighting,	Lansdowne, Pa.	Aug. 25
Sept. 2.	Brick sewer,	Buffalo, N. Y.	Aug. 25
Sept. 2.	Pipe sewers,	Waukesha, Wis.	Aug. 25
Sept. 2.	Repaving, etc.,	Omaha, Neb.	Aug. 25
Sept. 2.	Pier,	New York, N. Y.	Aug. 25
Sept. 2.	Street work,	Buffalo, N. Y.	Aug. 25
Sept. 3.	Gas lighting,	Delaware, O.	Aug. 25
Sept. 3.	Jail,	Goliad, Tex.	Aug. 18
Sept. 3.	Hospital building,	Ukiah, Cal.	Aug. 18
Sept. 3.	Sewage pumping plant,	No. Somerville, Mass.	Aug. 11
	Advertised, Eng. News, Aug. 11 and 18.		
Sept. 3.	Smokeless powder,	Washington, D. C.	Aug. 11
Sept. 3.	Granolithic walks,	Cornwall, Ont.	Sept. 1
Sept. 5.	Water-works,	Maynard, Minn.	Sept. 1
Sept. 5.	Wooden bridge,	Dillon, Mont.	Sept. 1
Sept. 5.	Brick paving,	Des Moines, Ia.	Sept. 1
Sept. 5.	Street work,	Allegheny, Pa.	Sept. 1
Sept. 5.	Asphalt paving,	Chester, Pa.	Sept. 1
Sept. 5.	Cement sidewalks,	Lake Forest, N. Dak.	Sept. 1
Sept. 5.	Heating plant,	Valley City, N. Dak.	Sept. 1
Sept. 5.	Sewers,	Callender, Ia.	Sept. 1
Sept. 5.	Tramways (13 miles),	London, England.	Sept. 1
Sept. 5.	Dredging,	Waukegan, Ill.	Aug. 4
	Advertised, Eng. News, Aug. 4 and 11.		
Sept. 5.	Bridge,	Dillon, Mont.	Aug. 4
Sept. 5.	Steel hull tugboat,	Seattle, Wash.	Aug. 11
Sept. 5.	Construction materials,	Ft. Delaware, Del.	Aug. 11
	Advertised, Eng. News, Aug. 11 to Sept. 1.		
Sept. 5.	Macadam road,	St. Paul, Minn.	Aug. 18
Sept. 5.	Brick paving,	Fremont, O.	Aug. 18
Sept. 5.	Brick paving,	Glens Falls, N. Y.	Aug. 18
	Advertised, Eng. News, Aug. 18 and 25.		
Sept. 5.	Dynamo and engines,	Dunning, Ill.	Aug. 18
Sept. 5.	Plans for market house,	San Antonio, Tex.	Aug. 18
Sept. 5.	Grading and paving,	Litchfield, Conn.	Aug. 25
Sept. 5.	Water dept. supplies,	Cumberland, Md.	Aug. 25
Sept. 5.	Brick paving, etc.,	Albany, N. Y.	Aug. 25
Sept. 5.	Paving brick, stone, etc.,	Cumberland, Md.	Aug. 25
Sept. 5.	Street bonds,	Coshocton, O.	Aug. 25
Sept. 5.	Paving,	Keokuk, Ia.	Aug. 25
Sept. 5.	Water supply,	Anaconda, Mont.	Aug. 25
Sept. 5.	Water-works,	Lanesboro, Minn.	Aug. 25
Sept. 6.	Macadamizing,	Hasbrouck Heights, N. J.	Aug. 25
	Advertised Eng. News, Aug. 25 and Sept. 1.		
Sept. 6.	Electric light plant,	Decatur, Mich.	Aug. 25
Sept. 6.	Bridge,	Oshkosh, Wis.	Aug. 25
Sept. 6.	Bridge and repairs,	Colusa, Cal.	Aug. 25
Sept. 6.	Heating, etc.,	New York, N. Y.	Aug. 25
Sept. 6.	Pipe sewer,	Dunkirk, N. Y.	Aug. 26
Sept. 6.	Street work,	Portchester, N. Y.	Aug. 25
Sept. 6.	Bridge bonds,	Newport News, Va.	Aug. 25
Sept. 6.	Improving road,	Carthage, O.	Aug. 18
Sept. 6.	Street bonds,	Hasbrouck Heights, N. J.	Aug. 18
Sept. 6.	Bridge,	Chateau, Mont.	Aug. 18
Sept. 6.	Bridge,	San Jose, Cal.	Aug. 18
Sept. 6.	Sewerage system,	Billings, Mont.	Aug. 18
Sept. 6.	Stop-cocks, etc.,	Jersey City, N. J.	Sept. 1
Sept. 6.	Recreation pier,	Brooklyn, N. Y.	Sept. 1
Sept. 6.	Pipe sewers, etc.,	Newton, N. J.	Sept. 1
Sept. 6.	Sewer,	Henderson, Ky.	Sept. 1
Sept. 6.	Street sweeper,	Hamilton, O.	Sept. 1
Sept. 6.	Sewers,	Columbus, O.	Sept. 1
Sept. 6.	Brick paving,	Bay City, Mich.	Sept. 1
Sept. 6.	Recreation building,	Brooklyn, N. Y.	Sept. 1
Sept. 6.	Water supply,	Philadelphia, Pa.	Sept. 1
Sept. 6.	Water-works,	Walker, Minn.	Sept. 1
Sept. 6.	Engine houses (4),	Toledo, O.	Sept. 1
Sept. 6.	Brick paving,	Albany, N. Y.	Sept. 1
Sept. 6.	Paving (2 contracts),	Binghamton, N. Y.	Sept. 1
Sept. 6.	Brick pvg. (2 contracts),	Schenectady, N. Y.	Sept. 1
Sept. 6.	Sewers, etc,	Philadelphia, Pa.	Sept. 1
Sept. 7.	Paving bonds,	Spokane, Wash.	Sept. 1
Sept. 7.	Library bonds,	Jersey City, N. J.	Sept. 1
Sept. 7.	Fire hose nozzles,	New York, N. Y.	Sept. 1
Sept. 7.	Bridge,	Oroville, Cal.	Aug. 4
Sept. 7.	Bridges (2),	Pendleton, Ore.	Aug. 18
Sept. 7.	Brick paving,	Cleveland, O.	Aug. 18
Sept. 7.	Heating and ventilation,	So. Omaha, Neb.	Aug. 18
	Advertised, Eng. News, Aug. 18 and 25.		
Sept. 7.	Bridge,	Prineville, Ore.	Aug. 25
Sept. 7.	Bridge,	Portland, O.	Aug. 25
Sept. 7.	Water tanks,	Chicago, Ill.	Aug. 25
Sept. 7.	Brick dormitory,	Morris, Minn.	Aug. 25
Sept. 7.	Court house,	St. Thomas, Ont.	Aug. 25
Sept. 8.	Plumbing, and heating,	Manitowoc, Wis.	Aug. 25
Sept. 8.	Brick paving,	Monroe, La.	Aug. 25
Sept. 8.	Granitoid walks,	St. Louis, Mo.	Aug. 25
Sept. 8.	Macadam paving,	Shoals, Ind.	Aug. 18
Sept. 8.	Bridge,	Roseburg, Ore.	Aug. 4
Sept. 8.	Dykes,	Hudson River, N. Y.	Aug. 11
	Advertised, Eng. News, Aug. 11 to Sept. 1.		
Sept. 8.	Court house,	Dallas, Ore.	Sept. 1
Sept. 8.	Brick sewer,	Hammond, Ind.	Sept. 1
Sept. 8.	Buildings,	Danville, Ill.	Sept. 1
Sept. 9.	Brick paving,	Shamokin, Pa.	Sept. 1
Sept. 9.	School buildings,	Mandan, N. Dak.	Sept. 1
Sept. 9.	Paving,	Omaha, Neb.	Sept. 1
Sept. 9.	Condenser, etc., for electric plant,	Chicago.	Sept. 1
Sept. 9.	Electric plant,	St. Louis, Mich.	Sept. 1
Sept. 9.	Abutments,	Woodsfield, O.	Sept. 1
Sept. 9.	Rubber suctions,	Charleston, S. C.	Aug. 11
	Advertised, Eng. News, Aug. 11 to Sept. 1.		
Sept. 9.	Sea walls,	Baltimore, Md.	Aug. 18
	Advertised, Eng. News, Aug. 18 to Sept. 8.		
Sept. 9.	Water bonds,	Sparta, Minn.	Aug. 25
Sept. 9.	School building,	Laharpe, Ill.	Aug. 25
Sept. 10.	Bridges (3),	Wichita, Kan.	Aug. 25
Sept. 10.	Brick paving,	Coshocton, O.	Aug. 25
Sept. 10.	Street improvements,	Nelsonville, O.	Aug. 25
Sept. 10.	Highways,	Rockville, Ind.	Aug. 25
Sept. 10.	Improving road,	Mansfield, O.	Aug. 18
Sept. 10.	School buildings (2),	St. Louis, Mo.	Sept. 1
Sept. 10.	Lodge building,	Fort Worth, Tex.	Sept. 1
Sept. 10.	Electric plant bonds,	Lancaster, Pa.	Sept. 1
Sept. 10.	Electric plant,	Greenup, Ill.	Sept. 1
Sept. 10.	Brick paving,	Alexandria, Ind.	Sept. 1
Sept. 10.	Dredging,	Philadelphia, Pa.	Sept. 1
Sept. 10.	Dam foundation,	Columbus, O.	Sept. 1
	Advertised, Engineering News, Sept. 1.		
Sept. 12.	Brick sewer,	Houston, Tex.	Sept. 1
Sept. 12.	Pipe sewers, etc.,	Faribault, Minn.	Sept. 1
Sept. 12.	Road work,	Houston, Tex.	Sept. 1
Sept. 12.	Bridge, Manning's Ford,	Va.	Sept. 1
Sept. 12.	Repairing steamer,	New York, N. Y.	Sept. 1
Sept. 12.	Paving, etc.,	Toledo, O.	Aug. 18
Sept. 12.	Water and sewer bonds,	Mobile, Ala.	Aug. 11
Sept. 12.	Grading, paving, etc.,	Toledo, O.	Aug. 11
Sept. 12.	Lake outlet,	Lake Manitoba, Can.	Aug. 25
Sept. 12.	Bridge,	Warren, Pa.	Aug. 25
Sept. 12.	Bonds,	Mansfield, O.	Aug. 25
Sept. 12.	Bridge,	Lima, O.	Aug. 25
Sept. 12.	Paving,	Youngstown, O.	Aug. 25
Sept. 13.	Aqueduct (17¼ miles),	Birmingham, Eng.	Aug. 25
Sept. 13.	Bridge,	Edmonton, N. W. Ter.	Aug. 25
Sept. 13.	Bridge work,	Columbus, O.	Aug. 25
Sept. 13.	Crushed limestone,	Toledo, O.	Aug. 25
Sept. 13.	Capitol building,	Helena, Mont.	July 28
Sept. 13.	Brick sewer, etc.,	Kearney, N. J.	Aug. 18
	Advertised, Eng. News, Aug. 18 to Sept. 8.		
Sept. 13.	Repairing bridge,	Mountain Home, Idaho.	Aug. 18
Sept. 13.	Building, etc.,	Oxford, O.	Sept. 1
Sept. 13.	Paving,	Vineland, N. J.	Sept. 1
Sept. 13.	Pipe sewers, etc.,	Parkersburg, W. Va.	Sept. 1
Sept. 13.	Sandstone, etc.,	Pt. Wilson, Wash.	Sept. 1
Sept. 13.	Electrical apparatus,	Norfolk, Va.	Sept. 1
Sept. 14.	Sewer system,	Pocomoke City, Md.	Sept. 1
	Advertised, Eng. News, Aug. 25 and Sept. 1.		
Sept. 14.	Water-works,	Pocomoke City, Md.	Sept. 1
	Advertised, Eng. News, Aug. 25 and Sept. 1.		
Sept. 14.	School building,	Pittsburg, Pa.	Sept. 1
Sept. 14.	City hall bonds,	Brooklyn, O.	Sept. 1
Sept. 14.	Brick paving,	Alexandria, Ind.	Sept. 1
Sept. 14.	Hospital building,	Los Angeles, Cal.	Aug. 18
Sept. 15.	Enlarging court house,	Lisbon, N. Dak.	July 28
Sept. 15.	Fire alarm system,	Mobile, Ala.	Aug. 11
	Advertised, Eng. News, Aug. 11 to Sept. 1.		
Sept. 15.	Light-house,	Tompkinsville (S. I.), N. Y.	Aug. 25
	Advertised Eng. News, Aug. 25 and Sept. 1.		
Sept. 15.	Engine (150-H.P.),	New Orleans, La.	Aug. 25
Sept. 15.	Iron bridge,	Natchitoches, La.	Aug. 25
Sept. 15.	Pipe sewers, etc.,	Santa Ana, Cal.	Sept. 1
Sept. 16.	Pipe sewers (6 miles),	Shelby, O.	Sept. 1
Sept. 16.	Brick and pipe sewer,	Richmond, Ind.	Aug. 25
Sept. 16.	Supplies,	Norfolk, Va.	Aug. 25
	Advertised Eng. News, Aug. 25 and Sept. 1.		
Sept. 17.	Storm sewer,	Mansfield, O.	Aug. 25
Sept. 17.	Headstones, (10,000),	Boston, Mass.	Aug. 25
Sept. 17.	Brick paving,	Watertown, Wis.	Sept. 1
	Advertised, Engineering News, Sept. 1.		
Sept. 17.	Sewers,	Washington, D. C.	Sept. 1
	Advertised, Engineering News, Sept. 1.		
Sept. 17.	Removing wreck,	St. Joseph, Mo.	Sept. 1
Sept. 19.	Electric lighting,	Portland, Ore.	Sept. 1
Sept. 19.	Jail building,	Newport News, Va.	Sept. 1
Sept. 19.	Bridges (2),	Newport News, Va.	Sept. 1
Sept. 19.	Heating and ventilating,	St. Albans, Vt.	Aug. 25
	Advertised Eng. News, Aug. 25 and Sept. 1.		
Sept. 19.	Hospital plans,	San Francisco, Cal.	Aug. 4
Sept. 19.	Jail,	Lovelocks, Nev.	Aug. 18
Sept. 19.	Bridge bonds,	Los Angeles, Cal.	Aug. 18
Sept. 20.	Viaduct,	Cincinnati, O.	Aug. 25
Sept. 20.	Electric light plant,	Grand Rapids, Mich.	Sept. 1
	Advertised, Engineering News, Sept. 1.		
Sept. 21.	Water-works,	Bristol, Va.	Sept. 1
Sept. 21.	Canal,	Chicago, Ill.	Aug. 25
	Advertised, Aug. 25 to Sept. 15.		
Sept. 22.	Hospital buildings, etc.,	Central Islip, N. Y.	Sept. 1
Sept. 22.	Electrical apparatus,	Central Islip, N. Y.	Sept. 1
Sept. 23.	Supplies,	Watervliet, N. Y.	Aug. 25
Sept. 24.	Capitol building,	Columbus, O.	Sept. 1
Sept. 24.	Electric plant,	Pensacola, Fla.	Sept. 1
Sept. 24.	Quay wall,	San Francisco, Cal.	Sept. 1
Sept. 26.	Bonds,	Dayton, O.	Aug. 25
Sept. 26.	Electric plant bonds,	St. Louis, Mich.	Sept. 1

Sept. 28. U. S. building, Brockton, Mass. ..... Sept. 1
Advertised, Eng. News, Sept. 1 and 8.
Sept. 29. Water-works, Wivenhoe, England ..... Sept. 1
Sept. 29. Court house, Marietta, Ga. ..... Aug. 18
Oct. 1. Arc lighting, Marshfield, Wis. ..... Aug. 18
Oct. 1. Monitors (4), Washington, D. C. ..... July 7
Oct. 1. School building (equipment), St. Thomas, Ont. July 7
Oct. 1. Road roller, Sheboygan, Wis. ..... Sept. 1
Advertised, Engineering News, Sept. 1.
Oct. 1. Head-race (power plant), Montreal, Que. ..... Sept. 1
Advertised, Eng. News, Sept. 1 to 15.
Oct. 3. Street work, Toledo, O. ..... Sept. 1
Oct. 4. Coal conveyors, etc., Chicago, Ill. ..... Aug. 25
Advertised, Eng. News, Aug. 25 to Sept. 29.
Oct. 5. Bridge superstructure, Chicago, Ill. ..... Aug. 11
Oct. 12. Park bonds, Spokane, Wash. ..... Sept. 1
Oct. 17. Gasholder, etc., Edinburgh, Scotland ..... Sept. 1
Oct. 24. Markets, etc., Belem, Brazil. ..... Apr. 28
Oct. 25. Jetties, Portland, Ore. ..... Aug. 25
Advertised, Eng. News, Aug. 25 to Sept. 15.
Oct. 30. School building, Chehalis, Wash. ..... June 16
Dec. 31. Plans for station, etc., Stockholm, Sweden. June 23
Jan. 1. City hall plans, Bridgeport, Conn. ..... Aug. 18
No date. Fireproofing, Petersburg, Va. ..... Sept. 1

RAILWAYS.

ALABAMA & FLORIDA.—We are informed that the surveys of this proposed line have been completed, the capital for construction secured and the contract awarded to R. M. Quigley & Co., St. Louis, Mo. The route is from Georgiana to River Falls, Ala., 30 miles, as previously stated, and it is expected to finish the work before Jan. 1. Pres., E. L. Moore, Georgiana, Ala.; Ch. Engr., Charles Seymour, Madisonville, Ky.

ATCHISON, TOPEKA & SANTA FE.—Reports state that Barney Lantry & Sons, of Strong City, Kan., have a contract to furnish this company with 50 carloads of crushed stone a day, to be used on the main line west of Kansas City, Mo. The ballasting work is expected to be finished by next spring.

ATLANTIC, VALDOSTA & WESTERN.—It is announced that construction work has been completed on this line from Haylow, Ga., to Crawford, Fla., and that it is now being further extended from Haylow to Valdosta. A number of contracts for work along the line have still to be awarded.

BRANDON & SOUTHWEST.—Reports state that the preliminary surveys have been completed for this proposed railway into Brandon, Man., to be about 90 miles in length. It is said that Robert Waddell, Trenton, Ont., has the contract, and that he will begin work at Deloraine in about one month.

CANTON, ABERDEEN & NASHVILLE.—This company intends to build a line from Winfield, Ala., to be about nine miles in length. The company applied for a charter in Alabama, Aug. 9, with a proposed capital stock of $1,000,000. A number of Illinois Central R. R. officials are interested.

CLEARFIELD SOUTHERN.—P. E. McGovern, of Punxsutawney, Pa., is reported to have been awarded the contract for the construction of this railway from Belsena Mills, Pa., to Clearfield Bridge, a station on the Bridge Creek R. R., a distance of about 15 miles. It is expected to employ about 200 men on the work at first.

COOS BAY, ROSEBURG & EASTERN.—Work is in progress on a 3-mile extension of this railway in Coos county, Ore., now in operation from Marshfield, on Coos Bay, to Myrtle Point, a distance of about 26 miles. A further extension from Myrtle to Roseburg, 60 miles, is projected. Pres., T. R. Sheridan, Roseburg, Ore.

DETROIT & LIMA NORTHERN.—C. W. Haskell, First Vice-Pres., 30 Broad St., New York, informs us that this company does not intend to extend its line from Waponeta, O., direct to Chicago, as currently reported.

DURANGO, WESTERN & PACIFIC.—Press reports state that this company will soon advertise for bids for iron bridges, section houses, stations, round-houses, rolling stock, etc., and that an English syndicate, headed by W. A. Moffat, is back of the project. A subsidy of $12,000 a kilometer (.621 mile) for mountain road, and $7,000 a kilometer across the table land is said to have been granted by the Mexican government. The line will be 300 miles long, and the provisions of the subsidy require its completion in three years.

GRAND MARAIS & NORTH SHORE.—R. W. Nichols, Ch. Engr., Duluth, Minn., informs us that the terminus has been located for this proposed railway from Grand Marais to Two Harbors, Minn., a distance of 90 miles, and that the right of way has been secured and the preliminary surveys are in progress. It is expected to let contracts for the construction of the line as soon as the survey is completed. Pres., E. K. Lewis, Duluth, Minn.

KOOTENAY RY. & NAVIGATION.—Press reports state that this company has been organized in London, Eng., with a capital stock of $500,000, for the purpose of consolidating the Kalso & Slocan Ry. Co., and the International Navigation & Trading Co., and to connect these directly with the Great Northern and Northern Pacific Rys.

LEHIGH VALLEY.—We are informed that H. O. Duerr, Contracting Engr., South Bethlehem, Pa., has made a contract with the Lehigh Valley R. R. Co., extending over several years, to furnish it with stone ballast on the main line of the road. The contract consists in furnishing the stone from two points: the Eastern point is Redington, Pa., from which a dark blue limestone is furnished that is almost as hard as trap rock. Mr. Duerr has agreed to supply 500 yds. a day at each point, and has purchased from the Rodger Ballast Car Co. forty 80,000-lb. patent ballast cars and two plows for that purpose. It is the intention of the railway company to ballast the entire line with stone ballast instead of cinder and gravel, as has been done heretofore. The western point from which a delivery is made is at a place known as Flint Hill, near North LeRoy, N. Y. From this latter place a flint rock ballast is obtained. C. E. Webster, Ch. Engr., South Bethlehem, Pa.

LITTLE COAL RIVER RY. & MINING.—Henry S. Hopkins, Jr., Secy., St. Louis, Mo., informs us that the location is now being made for this proposed railway from St. Albans to Madison, W. Va., a distance of 50 miles. The capital for construction has been negotiated for, and the contract for constructing the entire line has been awarded to the Hopkins Bridge & Construction Co., of St. Louis. The line enters 35,000 acres of valuable coal lands, and the company's principal revenue will be derived from its coal business. Pres., Allan R. Sheffer, 160 and 164 Broadway, N. Y; Ch. Engr., N. M. Leete, Huntington, W. Va.

LITTLE ROCK, HOT SPRINGS & TEXAS.—Press reports state that Receiver Lonsdale has been authorized to receive private bids, until Oct. 1, for the purchase of this line. The railway is projected to run from Little Rock, Ark., to Wister, Ind. Ter., 155 miles, with branches, and was graded from Benton to Hot Springs, Ark., in 1895, and four miles of track laid from Benton to the Saline River.

MISSOURI, KANSAS & TEXAS.—S. B. Fisher, Ch. Engr., St. Louis, Mo., informs us that no improvements of consequence are at present projected on this line of railway. Pres., H. C. Rouse, 45 Wall St., New York.

MONTGOMERY, HAINESVILLE & CAMDEN.—P. S. Milner, Principal Asst. Engr., Birmingham, Ala., informs us that this company has just completed a 45-mile survey from Camden to Suggsville, Ala., the latter town being on the Mobile & Birmingham R. R. The line crosses the Alabama River, requiring a bridge 600 ft. in length, and is intended to give the Montgomery, Hainesville & Camden an outlet to the Gulf. Pres., Sol. D. Bloch, Montgomery, Ala.; Ch. Engr., J. A. Milner, Birmingham, Ala.

RICHMOND NICHOLASVILLE, IRVINE & BEATTYVILLE.—It is announced that this railway will be offered at public sale at Versailles, Ky., Sept. 6, under foreclosure. The line at present extends from Versailles to Irvine, Ky., a distance of 61 miles, and has been in operation since 1890. After grading the road from Irvine nearly to Beattyville and building a number of costly trestles the money gave out and the rails have never been laid. In 1893 the company was forced into the hands of a receiver. This will be the fourth time within two years that the property has been put up at auction.

SANDY HUFF.—This company was incorporated in West Virginia, Aug. 29, with a capital stock of $500, to construct a steam railway from Sandy Huff Creek, on the Norfolk & Western R. R., to Guyandotte River, at the mouth of Huff Creek, W. Va. The incorporators are: F. S. Hamlin, W. R. Leathers, Jas. F. Strother and John Effler, McDonald county, W. Va.; W. D. Janney, Wayne county, W. Va.

SIERRA OR CALIFORNIA.—Reports state that this company has decided to extend its line immediately to the sugar pine belt, 20 miles from Jamestown, Cal.; work to begin this fall. The Crockers own about 30,000 acres of timber lands in this country, and it is said to be their intention to erect mills where the timber will be cut and dressed. It is thought that the road will be extended over the mountains into Nevada next season. Pres., Prince A. Poniatowski; Vice-Pres., H. J. Crocker, both of San Francisco, Cal.

STOCKTON & TUOLUMNE.—We are informed that about 12 miles of the earthwork on the roadbed for this proposed railway has been completed in detached portions where the right of way could most easily be obtained. All work is now suspended, pending an issue of bonds which has been authorized. If bonds are sold soon work may be again resumed. The work done is between Stockton, Cal., and the foot-hills 25 miles to the east. Pres., Mrs. Annie Kline Rikert, Grand Hotel, San Francisco, Cal.

WESTMORELAND JUNCTION.—J. Arthur Jones, Secy., Irwin, Pa., informs us that this company, whose incorporation was noted in our last issue, expects to build a steam railway from Irwin, on the Pennsylvania R. R., to Guffeys, on the Baltimore & Ohio R. R., a distance of six miles. Surveys are rapidly progressing, and most of the capital for construction secured. Pres., A. Frank, Irwin.

STREET AND ELECTRIC RAILWAYS.

BENTON, ME.—Samuel Ferguson, of Waterville, Me., has been awarded the contract for building the Benton & Fairfield Electric Ry., to be about three miles in length and to cost $30,000. Heavy rails will be laid so as to permit the hauling of freight cars from the Maine Central to the pulp mill at Benton Falls.

CLINTON, MASS.—A franchise was granted to the Clinton, Hudson, Maynard & Clinton St. Ry. Co. Aug. 23 to build from Clinton to Hudson. The company has 18 months in which to build the line.

HYDE PARK, MASS.—It is reported that the Norfolk Suburban St. Ry. Co. contemplates the extension of its line in the Readville district to the grounds of the New England Horse Breeders' Association. Pres., Jas. D. McAvoy, Readville, Hyde Park.

MERIDEN, CONN.—We are informed that Sanderson & Porter, 31 Nassau St., New York, contractors for the proposed Meriden & Compounce Electric Ry., have awarded to the Berlin Iron Bridge Co., of East Berlin, Conn., the contract for furnishing seven steel bridge spans; a steel frame car barn, 50 × 100 ft., and a power-house, 45 × 75 ft. Francis Atwater, of Meriden, is one of the promotors of the project.

BUFFALO, N. Y.—Reports state that the Buffalo, Kenmore & Tonawanda Electric Ry. was sold at a referee's sale in Buffalo, Aug. 23, to Morris Cohn, of Niagara Falls, N. Y., a stockholder of the Buffalo & Lockport Ry. Co., at about $92,000.

COXSACKIE, N. Y.—We are informed that work has been suspended for the present by the Greene County Traction Co. on its electric railway to connect Coxsackie, Greenville, Middleburgh and other places. The road will be 42 miles in length, and is to be completed by 1900. J. V. W. O'Connor, of Coxsackie, is interested. G. W. Raines, Pres., New York.

HILTON, N. Y.—An extension of the Rochester, Charlotte & Manitou R. R. is said to be contemplated from the present terminus at Manitou to Hilton, a distance of four miles. If built, the line would probably consist of only a single track at first, and would accommodate both passengers and freight.

HUDSON, N. Y.—It is announced that a number of Brooklyn street railway promoters have purchased the Kinderhook & Hudson Ry., now operated from Hudson to Niverville, N. Y., a distance of 18 miles, and that it will be converted into a trolley line. Power will be supplied from Stuyvesant Falls. An extension to Philmont will probably be built next year. S. R. Raines, Pres. Kinderhook & Hudson Ry. Co., Hudson.

NEW PALTZ, N. Y.—It is reported that Jas. G. Graham, of Newburgh, N. Y., has been appointed temporary receiver for the New Paltz & Wallkill Valley Ry. Co., on the application of the directors for a voluntary dissolution of the corporation. The company was incorporated Jan. 16, 1897, with a capital stock of $150,000, by Henry M. Brundage, Portchester, N. Y.; Hugh H. Douglass, of Boston; Paul Shaffer, 801 3d Ave., New York, and others. This electric line extended from the West Shore R. R., at Highland, N. Y., to New Paltz, Ulster county.

NEW YORK, N. Y.—The franchise of the Fulton, Wall & Cortlandt Street Ferries R. R. Co. was sold at auction Aug. 25 by L. J. Phillips & Co., in pursuance of a judgment in foreclosure obtained by the Central Trust Co., of New York, to Joseph D. Donald, 81 Fulton St., at $621,276. The franchise provides for a street railway from the foot of Fulton St. to the Cortlandt St. ferry, and from the Wall St. ferry to the Cortlandt St. ferry. Edward Selleck, 45 William St., New York, is interested.——The Wall & Cortlandt St. Ferries Ry. Co. was incorporated Aug. 25, with a capital stock of $1,000,000, to operate under the franchise formerly owned by the Fulton, Wall & Cortlandt St. Ferries R. R. Co., and which was sold at auction Aug 25. The directors are, F. D. Moffat, 81 Fulton St.; Charles Buse, K. S. Hogg, E. L. Conant, H. W. Bean, M. E. Gill and J. P. Shenfield, all of New York.

SYRACUSE, N. Y.—Belden & Seeley are now at work on the new line of the Syracuse & Suburban R. R. Co. on East Fayette and Montgomery Sts. The work will probably be completed the latter part of this month.

WATERTOWN, N. Y.—The Watertown & Sacketts Harbor Rapid Transit Co. has been organized, with a capital stock of $100,000, to construct and operate an electric street railway from Arcade and Arsenal Sts., in Watertown, to Sacketts Harbor, on Lake Ontario, a distance of ten miles. It is proposed to carry freight and passengers. The incorporators are, William P. Casey, James J. Luddington, James H. Kinney and H. D. Barto, of Syracuse; G. Harrison Smith, Joseph Marrian, Wilbur F. Porter, Amelia E. Barron, D'Esting Moore, John E. Bergevin, Ora E. Riordan, Norris M. Van Brunt and Edward Cuff, of Watertown; S. Harland Wetmore, Leyden, N. Y.; William H. Reese, Evans Mills, N. Y.

ATLANTIC CITY, N. J.—The Atlantic City St. Ry. Co. has applied for a franchise to construct an electric railway from South Carolina Ave. and the beach to Arctic Ave., and thence on Rhode Island Ave. to Caspian Ave. Among the petitioners are: C. J. Adams, John J. Gardner and Levi C. Albertson.

COPLAY, PA.—We are informed that surveys have been completed and rights of way obtained for the electric railway of the Coplay, Egypt & Ironton St. Ry. Co. It will be six miles in length, connecting the three places named Contracts for the construction will probably be awarded this week. J. G. Meyle, Coplay, is interested. Dr. H. Y. Horn, Pres., Coplay; Chas. Weirbach, Ch. Engr., Allentown, Pa. The incorporation of the company was noted in our issue of May 26.

EDGEWOOD PARK, PA.—The Edgewood St. Ry. Co. was incorporated Aug. 26 with a capital stock of $5,000, to construct a railway eight-tenths of a mile in length. The incorporators are, W. E. Guy, Pres.; J. C. Burkhard, William Porter and Edward Williams, all of Pittsburg, Pa.; Harry Fisher, Allegheny City, Pa.

RANKIN STATION, PA.—The Rankin & Hawkins St. Ry. Co. was incorporated Aug. 26 with a capital of $6,000, to construct an electric street railway one mile in length in the borough of Rankin. Pres., W. E. Guy, Pittsburg.

SWISSVALE, PA.—The Swissvale St. Ry. Co. was incorporated Aug. 26 with a capital stock of $5,000, to construct one mile of electric street railway in Swissvale. Pres., W. E. Guy, Pittsburg.

WILKINSBURG, PA.—The Wilkinsburg Connecting St. Ry. Co. was incorporated Aug. 26 with a capital stock of $5,000, to construct an electric street railway six-tenths of a mile in length. Pres., W. E. Guy, Pittsburg; Directors, J. C. Burkhard and others.

WASHINGTON, D. C.—The Siemens & Halske Electric Co., of Chicago, is reported to have been awarded a contract to furnish the Capital Ry. Co. with an electric power plant, consisting of a 100-K-W., 550-volt dynamo and other machinery, at $2,855. Pres., A. E. Randle.

ROANOKE, VA.—D. W. Flickwir, Recr., Roanoke, informs us that the Roanoke St. Ry. Co. is making no improvements or changes to its system, other than the regular repair work.

CLEVELAND, O.—It is reported that work has begun on the Cleveland & Eastern electric railway, and that contracts have been let for 15 miles of grading in Cauga county. Contracts are expected to be let within a few days for the power house, the running stock and the electrical equipment. The officers are, Pres., H. P. McIntosh; Vice-Pres., H. A. Sherwin; Secy. and Treas., E. G. Tillotson.

EATON, O.—Jas A. Gilmore, of Eaton, in behalf of the Western Ohio Traction Co., has applied to this town for a franchise over the roads leading to Middletown, a distance of 22 miles. The promoters of the project, as stated in our issue of Aug. 18, are Chas. S. Parkhurst and Walter W. Brandon, of Anderson, Ind.

MICHIGAN CITY, IND.—We are informed that John W. Lovett is president and W. W. Huffman chief engineer, both of Anderson, Ind., of the Northern Traction Co., which was incorporated Aug. 19 to build an electric street railway from Michigan City to Laporte.

DURAND, MICH.—H. Hutchinson, of Durand, writes us that right of way has been obtained in this village, but no surveys have yet been made for the projected road of the Long Lake, Durand & Corunna Electric Ry. Co., noted last week. Particulars can be obtained by addressing Wm. E. Avery, 88 Post St., Detroit.

HOUGHTON, MICH.—It is reported that the Houghton County St. Ry. Co. is being organized by business men from Calumet, Laurium, Hancock, Lake Linden and Houghton, to construct an electric street railway in Houghton county. A preliminary survey has been made from East Houghton to West Hancock.

SAUGATUCK, MICH.—The township boards of Laketown and Saugatuck have granted franchises to the Saugatuck, Douglas & Lake Shore Electric Ry. Co., to construct an electric railway. It is said that work will begin in the middle of October.

EAST ST. LOUIS, ILL.—The Illinois Central R. R. Co. has decided to install an electric system on the old St. Louis, Belleville & Southern Ry., between East St. Louis and Belleville, a distance of about 14 miles, according to reports.

KANSAS CITY, KAN.—At a meeting of the city council, Aug. 16, an ordinance was passed providing for the changing of the Fifth St. cable line into an electric road. Local papers state that the work of changing the system will be resumed at once and pushed to completion.

LAWRENCE, KAN.—A franchise was granted to the Lawrence Electric Ry. Co., Aug. 24, to replace its present street car system by an electric system. It provides that work shall commence within 60 days, and that five miles shall be completed by March 1, and the entire system, eight miles, by July 1.

KANSAS CITY, MO.—The Jackson County Electric Ry. Co. has applied to the county court for franchises for two new lines of electric railway, one to follow Independence Ave. from Kansas City to Independence; the other from the south city limits to Dobson. Pres., F. W. Sears.

GAINESVILLE, TEX.—The Gainesville Park St. Ry. Co. was incorporated Aug. 23; capital stock, $100,000. Incorporators, J. M. Lindsay, Lewis Lindsay, Henry Lindsay, Geo. Lindsay, H. E. Eldridge.

LOS ANGELES, CAL.—A meeting of the citizens of San Gabriel and Alhambra has been held to raise a bonus of $20,000 to be paid the Los Angeles Terminal Ry. Co., to secure the construction of an electric line four miles long from South Pasadena to San Gabriel Sanitarium, passing the San Gabriel Mission and Alhambra. It is believed the money will be raised within a few weeks.

OAKLAND, CAL.—Local papers announce that the Southern Pacific Co. will soon adopt electric motors on all its lines in Alameda county, the San Pablo Ave. cable road to be the first line to be changed.——Also that the Oakland, San Leandro & Haywards Electric Ry. Co. has commenced the work of raising its tracks on East Twelfth St. to the official grade, and that the Oakland Transit Co. will improve its tracks on the thoroughfare as soon as new rails arrive from the East.

HONOLULU, HAWAII.—Press reports state that August Driel'r, manager of Elell plantation, has given an order to Theodore Hoffman, Mgr. of the Hawaiian Electric Co., for the equipment of two miles of electric railway, including one 50-HP. electric locomotive. This will be the first electric line in the islands.

LONDON, ENGLAND.—Bids are asked until Sept. 5 for the materials and construction of the track and permanent way of about 13 miles of tramways (in sections) in the Potteries district of North Staffordshire, for the British Electric Traction Co., Ltd. For information, address Permanent Way Engr's. Office, Donington House, Norfolk St., Strand, W. C.

ELECTRIC LIGHT AND POWER.

CHESTER, MASS.—The question of building a plant is being considered.

MEDWAY, MASS.—The committee has decided to award the 5-year lighting contract to the Medway Electric Light Co. The plant is to be in operation Oct. 1. The company is endeavoring to secure business in Millis. Pres., John McGuinnis; Secy., C. P. Harding.

ALBANY, N. Y.—Jacob V. Jacobs, Deputy Supt. of Public Buildings, has submitted a report for a plant for the capitol building and grounds, according to reports. There are at present in use about 10,600 incandescent and 60 arc lights, costing $42,000 a year.

ALBION, N. Y.—Press reports state that the plant and franchise of the Albion Electric Light Co., the stock of which is owned principally by the estate of E. K. Hart and Wm. G. Swan, are to be sold to the new company, the Albion Power & Light Co. The old company was organized eight years ago. Its contract with the trustees for lighting the streets terminated last April, and was not renewed, as better terms were offered by Mr. Lum, the promoter of the new company. A large number of improvements will be made, including a new power house. Engr. and Gen. Mgr., Wallace G. Johnson; Secy., Sanford T. Church.

AUBURN, N. Y.—The contract for furnishing a plant for the state prison has been let to Barnes & Payton, Troy, N. Y., at $6,189. The plant will be installed by the convicts.

CENTRAL ISLIP, N. Y.—Bids are asked until Sept. 22 for furnishing the materials and for erecting a power plant, warming, ventilation and hot-water supply; water supply and distribution; plumbing and drainage; engines and generators; and the electric wiring and fixtures, of a new colony of hospital and accessory buildings at Central Islip, for Manhattan State Hospital. State Arch., I. G. Perry, Albany; Pres. Bd. Mgrs., Henry E. Howland, 1 Madison Ave., New York.

CENTERTON, N. J.—It is stated that the Parvin Mill at Centerton has been sold to Philadelphia parties for $10,000. It is understood that an electric light plant will be put in to light the nearby towns.

COHOES, N. Y.—The Cohoes Electric Light Co. is reported as considering the question of extending its plant.

CHESTER, PA.—Bids are asked until Sept. 2 for lighting the borough of Prospect Park with electricity. Chn. Com., F. McGinnis.

JOHNSTOWN, PA.—The 3-year lighting contract with the Johnstown Electric Light Co. expires Oct. 1. There is some discussion of the question of the city building a plant.

LANCASTER, PA.—Bids are asked until about Sept. 10 for the purchase of $100,000 of 30-year first mortgage bonds for extending the incandescent system, etc., of the plant of the Lancaster Electric Light, Heat & Power Co Pres., W. F. Beyer, 33 North Duke St.

OAKLAND, MD.—It is stated that the council has authorized R. S. Jamison, Mayor, to make D. E. Offutt an offer of $13,000 for his electric plant. The town now pays Mr. Offutt $170 a month for arc lights on the streets. Should Mr. Offutt accept the offer, the authorities will provide for an issue of bonds and improvements will then be made.

TRAPPE, MD.—J. I. Chaplain, M. D., writes us that it is proposed to construct a plant, but the plans are not sufficiently matured to ask for bids at present.

FREDERICKSBURG, VA.—T. McCracken, Chn. Com., writes us that this city is getting data as to cost of wiring, dynamos, engines, etc., for a plant. Mr. McCracken wishes to correspond with electric companies about building a plant. It is likely that the town will be ready to secure bids in about 10 or 15 days. The plant will cost about $9,000.

NORFOLK, VA.—Bids are asked until Sept. 13 for furnishing the navy yard with two direct-connected electric generating sets, one switchboard and 30 lightning arresters. Edwin Stewart, Paymaster-Gen., U. S. Navy, Washington.

ORANGEBURG, S. C.—The council is reported as arranging for the construction of a plant and water-works.

ARLINGTON, GA.—An election will probably soon be held to vote on the question of issuing bonds for a plant and water-works.

PENSACOLA, FLA.—Bids are asked until Sept. 24 for installing a plant at the navy yard. The appropriation for this work is $10,000. M. T. Endicott, Chn. Bureau Yards and Docks, Washington, D. C.

TUSCUMBIA, ALA.—The question of building a plant in connection with the proposed water-works is being considered, according to reports.

LAKE PROVIDENCE, LA.—R. L. Hill is reported as wishing to receive estimates for materials for a plant and water-works.

FRANKFORT, KY.—Arrangements are reported as being made for the proposed plant for the capitol building.

MOUNT GILEAD, O.—Geo. J. Young, Clk., writes us that at election held Aug. 27 this place voted against issuing $33,000 in bonds for a plant and water-works. On account of the light vote another election will probably soon be held.

NEW RICHMOND, O.—It is stated that an election will be held Sept. 6 to vote on the question of issuing $30,000 in bonds for a plant and water-works. Engr., E. F. Layman, 32 East 3d St., Cincinnati, O.

TOLEDO, O.—T. R. Cook, Supt. water-works, writes us that no steps have yet been taken towards establishing a plant at the pumping station. There has been considerable preliminary discussion.

WESTERVILLE, O.—The Westerville Electric Co. has secured a 10-year franchise and a 5-year contract to light the village. A plant will be built at once. A 40 K-W. 220-volt dynamo, a 60-HP. engine, etc., will be put in. E. S. Aldrich, 11 Wesley Block, Columbus, O., engineer in charge, wishes prices on the generator, on 10 220-volt enclosed arc lamps, 6,000 lbs. W. P. wire, 200 poles and all necessary supplies.

GRAND RAPIDS, MICH.—Bids are asked until Sept. 20 for furnishing buildings, machinery, etc., for a complete plant, as stated in our advertising columns. Pres. Bd. Pub. Wks., Wm. T. Johnston; Secy., Fred. A. Twamley.

CLINTON, MICH.—It is stated that the municipal plant will be extended. F. Ellis may be addressed.

ST. LOUIS, MICH.—Bids are asked until Sept. 9 for constructing a dam, power house, installing machinery, etc., and until Sept. 26 for the purchase of $20,000 of 4% bonds for the proposed plant, etc. Engr., E. Z. Burns; Cy. Clk., Jno. R. Wilson; Mayor, Parker Merrill.

CHICAGO, ILL.—Bids are asked until Sept. 9 for furnishing steam piping and a condenser for the electric light plant at Rice and Lincoln Sts. Edward B. Ellicott, Cy. Electrician.

GREENUP, ILL.—Bids are asked until Sept. 10 for furnishing and building a plant to be operated in connection with the water-works. Gasoline engines will be used. It will have a capacity for 17 arc and 200 20-c. p. incandescent lights; estimated cost, $2,000. Engr., J. C. Riper, Indianapolis; Clk., W. H. Cuningham.

SHELBYVILLE, ILL.—It is stated that the Trout Bros.' electric light plant, which has been in the hands of a receiver, was sold Aug. 23 to the Shelbyville Water & Light Co. for $9,300. The purchase gives the latter company a monopoly of the water supply and lighting of the town.

EAU CLAIRE, WIS.—It is stated that this city is securing data regarding municipal plants.

LONEROCK, WIS.—The question of building a plant is being considered, according to reports.

DULUTH, MINN.—Press reports state that a deal for the Jay Cooke property on the St. Louis River, owned by the St. Louis River Water Power Co., is in progress. An English syndicate is said to be negotiating for it and the price at which it is held is $1,500,000. About 10 miles of the river is included in the property. J. M. Butler, Philadelphia, Pa., represents the Cooke interests.

REDLAKE FALLS, MINN.—The council is reported as considering a proposition from Marcus Johnson for putting in a plant.

PLEASANTON, KAN.—J. P. Holmes, Cy. Clk., writes us that this place will not have electric lights, as was recently reported.

WATERTOWN, S. DAK.—O. M. Kirlin writes us that the equipment for the proposed plant has not yet been purchased, but will be very soon.

FARGO, N. DAK.—E. A. Hughes and Gen. Hughes, Bismarck, N. Dak., will let the contract at once for the proposed plant, according to reports.

LOS ANIMAS, COLO.—This place voted Aug. 23 against granting a 20-year franchise to J. B. Downing, Pueblo, Colo. It is stated that the opponents are in favor of the municipal ownership of the plant.

TACOMA, WASH.—The council has refused to grant a franchise to the Snoqualmie Falls Power Co. The Westinghouse Electric & Mfg. Co., Pittsburg, Pa., has been awarded the contract for 2,000-HP. generators, motors, etc., for the plant. Pres., C. H. Baker, Seattle, Wash.

PORTLAND, ORE.—Bids are asked until Sept. 19 for lighting the streets for a term of two years with arc and incandescent lights; check, $30,000. The present contract expires April 1, 1899. Chn. Com. J. C. Luckel.

DUNDAS, ONT.—It is stated that the council will grant a 15-year franchise to the Dundas Electric Light Co. The town will use 150 incandescent and four arc lights. Geo. H. Harper, Mgr.

MONTREAL, QUE.—Bids are asked until Oct. 1 for constructing a head-race complete for the power plant of the Shawinigan Water & Power Co., as described in our advertising columns. We are informed that the company has prepared plans to utilize Shawinigan Falls on the St. Lawrence River, 17 miles from Three Rivers, or about 100 miles from Montreal. There is a fall of 165 ft., with a water supply which will develop 200,000 HP. The company has decided to install at once a plant capable of developing 100,000 HP., and is now calling for bids for the construction of the head-race. It is understood that the company will be in a position to sell power at Three Rivers cheaper than it can be obtained at any other port in the world reached by ocean-going vessels, and at the falls at a proportionally low figure. Engrs., T. Pringle & Son, Imperial Bldg., Montreal; Secy., B. Shepherd.

NEW COMPANIES.—H. W. & M. Electric Co., New York; $25,000; Charles Hagedorn, 227 13th St., Brooklyn.

Keystone Electric Construction Co., Tunkhannock, Pa.; $10,000.

Standard Electric Co., Parsons, Pa.; $40,000.

Loveland Power & Electric Light Co., Loveland, O.; $10,000; I. W. Newcomer, C. C. Strickleman, W. H. Stubbs, H. A. Cayne, R. B. Corwin.

Keeseville Electric Co., of Chesterfield, N. Y.; $30,000; Orville S. Morse, Henry M. Prime, A. W. Boynton, Keeseville; George F. Morse, Peru, N. Y.; Henry E. Barnard, Plattsburg, N. Y.

Morrow Power & Electric Light Co., Morrow, O.; $10,000; W. H. Stubbs, R. R. Corwin.

Wetmore Electric Co., Lowville, N. Y.; $40,000; to light Lowville, Croghan and New Bremen; George W. Pulver, Syracuse; Jacob Strife, Oliver P. Hedden, Lowville; Thomas Glenn, Croghan.

Dunmore Electric Light Co.; $50,000, with $5,000 paid in; James E. Watkins, Taylor, Pa.; Deputy Recorder Anthony T. Irwin, Dunmore; ex-County Surveyor Abraham Dunning, ex-Mayor John H. Fellows; State Senator James C. Vaughn, Scranton.

Perry Electric Light, Heat & Power Co., Newport, Pa.; $13,000, with $1,300 paid in; Treas., Samuel S. Leiby, Marysville, Pa.; Jas. R. Van Dyke, Philadelphia; J. S. Leiby, Newport.

Consumers' Electric Co., Cleveland, O.; to light the west side of Cleveland; Pres. and Treas., A. W. Offerman; Secy., Chas., P. Salen.

Sonoma Water & Power Co., Genoa, Nev.; $10,000.

BRIDGES.

WESTFIELD, MASS.—The county commissioners have ordered the construction of a new 115-ft. iron or steel highway bridge, with a 22-ft. roadway and one sidewalk, over Little River, according to report.

YONKERS, N. Y.—The council is reported to have approved the plans for a bridge over the Nepperhan River, on Nepperhan St., prepared by S. L. Cooper, Comr. of Pub. Wks. Bids for the same will soon be asked.—— Pennell & O'Hern have the contract for the masonry abutments of the Hastings Ravine bridge on Warburton Ave. extension, and Dougherty & Berrigan have the contract for the stone bridge over Rowley Brook.

HOBOKEN, N. J.—The Erie R. R. and the West Shore R. R. have agreed jointly to pay $15,000 of the cost of the proposed Park Ave. viaduct, to be erected by the freeholders, the total cost of which will be about $72,000. E. W. Harrison, Ch. Engr.

COCALICO, PA.—The Massillon Bridge Co., Massillon, O., was awarded the contract Aug. 20 for the superstructure of the new iron bridge over Cocalico Creek, as noted in our issue of Aug. 11. Its bid was $1,450. Kauffman & Kramer were awarded the contract for the masonry substructure at $2.50 a cu. yd. John B. Eshleman, Chn. Comrs., Lancaster, Pa.

EMAUS, PA.—The Passaic Bridge Co., Passaic, N. J., is reported to have been awarded the contract to build two iron bridges across the tracks of the street railway company on Perkiomen and 4th Sts.

LANDENBURG, PA.—William Founds has been awarded the contract for the masonry of an iron bridge at this place, according to report.

STROUDSBURG, PA.—The bridge over the Delaware River to the island at this place was washed away, Aug. 25, as the result of a cloudburst above Port Jervis.

MANNING'S FORD, VA.—Bids are asked until Sept. 12 for constructing a 69-ft. iron highway bridge over Broad Run at this place. P. W. Carper, E. F. Burch and Geo. M. Ellmore, Comrs., Leesburg, Va.

NEWPORT NEWS, VA.—Bids are asked until Sept. 19 for the construction of two iron bridges and approaches. J. A. Massie, Cy. Clk.

NEWPORT NEWS, VA.—Bids are asked until Sept. 6 for the purchase of $40,000 4½% bridge bonds; check, $1,000. J. A. Massie, Cy. Clk.

CINCINNATI, O.—The injunction granted the Cincinnati & Wooster Turnpike Co. restraining the county commissioners from constructing an approach to the Indian Hill bridge at the pike crossing has been dissolved, according to report.——The Brockett Bridge Co. has been awarded the contract to build the Mill Creek Bridge on Riddle Road, at $2,900.——A. J. Wellman has secured the contract for the superstructure of the bridge over Mill Creek, at $3,456, according to report.——The Cincinnati Bridge Co. was awarded the contract Aug. 13 for an iron bridge to cost $1,750 over the Miami Canal on Township Ave., according to report. The contract for the approaches was given to A. J. Henkel & Co., for $2,269. Guy M. Gest was awarded the contract for the substructure and approaches of the Mill Creek bridge on the Springfield pike at $35,155. F. S. Krug, Cy. Engr.

HAMILTON, O.—The following bids were received Aug. 22 by the county commissioners for the construction of the new Columbian Bridge: King Bridge Co., Cleveland, O., $55,221; Bellefontaine Bridge & Iron Co., Bellefontaine, O., $61,500; Rogers Iron Co., Springfield, O., $56,000; Variety Iron Works Co., Cleveland, O., $57,200 and $58,200; Youngstown Bridge Co., Youngstown, O., $50,648, and $50,900; Iron Substructure Co., Columbus, O., $59,000; Lafayette Bridge Co., Lafayette, Ind., $49,000, $55,000, $40,000, $23,000, $71,000, $57,300, $68,000 and $51,000; Oregonia Bridge Co., Oregonia, O., $49,500, $36,000, $41,000 and $23,500; Toledo Bridge Co., Toledo, O., $48,850 and $43,000; Penn Bridge Co., Beaver Falls, Pa., $55,195; Mt. Vernon Bridge Co., Mt. Vernon, O., $56,334; Champion Bridge Co., Wilmington, O., $56,975; Brockett Bridge Co., Cincinnati, O., $55,487; J. T. Guillaume, $69,500, $68,500 and $62,000, superstructure only, $42,000; New Columbus Bridge Co., Columbus, O., $57,365; Milwaukee Bridge & Iron Works, Milwaukee, Wis., $50,000; Wrought Iron Bridge Co., Canton, O., $51,100; Massillon Bridge Co., Massillon, O., $56,000 and $55,000; Cincinnati Bridge Co., Cincinnati, O., $55,550; Pittsburg Bridge Co., Pittsburg, Pa., $57,309; Peter E. Schwab, 38 different bids, varying in price from $31,000 to $79,000. L. A. Dillon, Cy. Engr.

LORAIN, O.—The Osborn Co., Cleveland, O., has been appointed engineer in charge of the new bridge over Black River at Erie Ave., the estimated cost of which is $175,000.

TIFFIN, O.—The Canton Iron Bridge Co., Canton, O., has received a contract to build an iron bridge at Tiffin.

WOODSFIELD, O.—Bids are asked until Sept. 9 for the erection of stone abutments for the Buschy Ford bridge. W. T. Wood, County Auditor.

ANDERSON, IND.—Thos. P. Kelly has been awarded the contract to build the stone viaduct at 11th and John Sts., at $2,900, according to report. H. H. Rogers, Cy. Engr.

BIG RAPIDS, MICH.—The Detroit Bridge & Iron Works, Detroit, is reported to have a contract for an $18,000 steel bridge for the Grand Rapids & Indiana Ry. Co. at Upper Big Rapids, over the Muskegon River.

MUSKEGON, MICH.—The council has passed a resolution, according to report, condemning the Biedler St. bridge and ordering it torn down. Clifford Gamble, Cy. Engr.

EAU CLAIRE, WIS.—It is reported that an election will be held Sept. 6 to vote on the question of issuing bonds for a new bridge to cost about $50,000. C. A. Alderman, Cy. Engr.

BRAINERD, MINN.—Bids are asked until Sept. 9 for the construction of a steel bridge over a ravine from Kingwood St. to Kindred St. F. A. Farrar, Cy. Clk.

MINNEAPOLIS, MINN.—The Sherwood-Sutherland Co. has been awarded a contract for repairing and paving the Wabash St. bridge, at $6,603, according to report.——The council is reported to have approved the recommendations of the ways and means committee that $30,000 be appropriated for widening the Central Ave. bridge over the East River. F. W. Cappelen, Cy. Engr.

BURLINGTON, IA.—High water is reported to have damaged or destroyed the following bridges: Rolling Mill road, 120-ft., destroyed; Dry Branch on Walker road, 100-ft., destroyed; Flint River, 100-ft., washed away; Honey Creek on Iowa City road, 38-ft. steel, badly damaged; Augusta township, 100-ft., badly damaged; Flint River on Bottom road, 24-ft., steel, destroyed; Mediapolis bridge on Iowa City road, 30-ft., destroyed; Yellow Springs branch, 90-ft., steel, destroyed; North Bottom bridge over Yellow Springs branch, 130-ft., destroyed; Howard branch, 30-ft., steel, washed away, and Washington road bridge, 90-ft., destroyed. Address County Bridge Commissioners.

OMAHA, NEB.—The county clerk has been instructed to call for bids for a 150-ft. steel bridge over the Elkhorn River, according to report.——The Canton Bridge Co., Canton, O., has received the contract to construct the 75-ft. steel bridge across a ravine on the Millard road for $1,675. R. W. Howell, Cy. Engr.; Geo. F. Monroe, Chn. Bd. Pub. Wks.

DILLON, MONT.—Bids are asked until Sept. 5 for constructing a 60-ft. wooden bridge at the Montgomery crossing on Big Hole River. E. H. Mayers, Clk.

HOUSTON, TEX.—About 200 citizens have petitioned the council to replace the present Franklin St. bridge by a new one, according to report. L. A. Gueringer, Cy. Engr.

CHEHALIS, WASH.—Peter Summersett and William Young were awarded the contracts for the Alpha and Salmon Creek wooden bridges, Aug. 5.——The San Francisco Bridge Co., San Francisco, Cal., was awarded the contract Aug. 20 for the Lincoln Creek bridge at $8,965. Savage & Schofield were awarded the contract for the Bolsfort bridge at $2,500. Sweden & Mills, Tacoma, Wash., received the contract for the Claquito bridge at $5,500. The original bids received Aug. 5 were rejected.

MONTESANO, WASH.—The Columbia Bridge Co. has been awarded the contract, according to report, for the construction of the 80-ft. steel draw span and the approaches of the South Bay bridge, at $9,236.

BUILDINGS.

ST. ALBANS, VT.—Bids are asked by the supervising architect, Washington, D. C., until Sept. 19, for the low-pressure, return circulation steam heating and ventilating apparatus for the U. S. building in this city.

BOSTON, MASS.—The following bids were received by the school-house committee Aug. 22 for the erection of a new high school building at South Boston: John S. Jacobson & Son, Boston, $242,971; W. L. Clarke & Co., $264,000; W. H. Keyes & Co., Boston, $265,187; Mead, Mason & Co., Boston, $266,600; James Fagan, $273,535; W. S. Sampson & Son, Boston, $281,000; Woodbury & Leighton, Boston, $282,000; Connery & Wentworth, $290,000; Chas. H. Dodge & Co., $328,325.——Reports state that the contracts for erecting the Dorchester high school and the Brighton school buildings have been awarded to Frank G. Coburn & Co., Melrose, Mass., at $217,900 and $34,900, respectively.

BROCKTON, MASS.—Bids are asked by the supervising architect until Sept. 28 for the construction (except heating apparatus and electric wire conduits) of the post-office building in Brockton, as stated in our advertising columns.

BROOKLYN, N. Y.—Bids are asked by the department of docks and ferries, Pier A, North River, New York, until Sept. 6 for preparing for and completing the recreation building at the foot of North 2d St., East River, in the Borough of Brooklyn. It is estimated that the following material will be required: 188,000 lbs. of structural steel; 2,050 lbs. of screw bolts; 3,100 sq. ft. of corrugated iron; 14,000 sq. ft. of tin roofing; 6,150 sq. ft. of exterior and interior metal work, etc.——Bids are asked by the bureau of yards and docks, navy department, Washington, D. C., until Sept. 17, for the erection of a storehouse for steel, the appropriation for which is $17,500. Mordecai T. Endicott, Ch. of Bureau.——Plans have been filed by Rev. James Duffy, Pastor of St. Agnes's Catholic Church, at Sackett and Hoyt Sts., for a new church building to be erected in Degraw St., near Hoyt St., at a cost of about $60,000. Arch., Thos. J. Houghton, 213 Montague St., Brooklyn.

CENTRAL ISLIP (L. I.), N. Y.—Bids are asked until Sept. 22 for the erection and finishing, power plant, warming, ventilation and hot-water supply; water supply and distribution; plumbing and drainage; engines and generators; and the electric wiring and fixtures of a new colony of hospital and accessory buildings at Central Islip for the Manhattan State Hospital. Henry E. Howland, Pres. Bd. of Mgrs., 1 Madison Ave., New York.

NEW YORK, N. Y.—Plans are being prepared, according to reports, for six 6-story stone store and apartment buildings, to be erected on 116th St., near 8th Ave., at a cost of about $200,000, for Thomas Martin, of Brooklyn, N. Y. Arch., F. T. Camp, 97 Cedar St., New York.——Plans have been filed by W. H. Gildersleeve, 213 West 4th St., for two 6-story brick warehouses and stable, at 244 to 248 West 27th St., to cost $70,000. Arch., G. A. Edelsvard; by the Church of the Holy Rosary, for a 1-story brick church building on 119th St., west of Pleasant Ave., to cost $90,000. Arch., T. F. Houghton, 213 Montague St., Brooklyn, N.Y.; Builder, John T. Brady; by Charles Thorley for a 9-story brick office and store building at Broadway and 42d St., to cost $60,000. Arch., H. F. Kilburn, 150 5th Ave.; by Arthur Gorsch, 1444 3d Ave., for four 5-story brick flats and store buildings on 125th St., west of Amsterdam Ave., to cost $80,000. Arch., S. Sass, 25 Chambers St.; by Eva Steinmetz, 579 West 146th St., for five 3-story brick dwellings on 149th St., west of Amsterdam Ave., to cost $70,000. Arch., C. Steinmetz; by George Brown for four 5-story brick flat and store buildings, at 148th St and 8th Ave., to cost $88,000. Arch., Jas. W. Cole, 403 West 51st St.; by Hyman & Oppenheim, 103 4th Ave., for four 6-story brick flat buildings at 323 to 331 East 16th St., to cost $114,000. Archs., Schneider & Herter, Bible House; by Jacob Jung, 31 West 117th St., for a 5-story brick flat and store buildings at 83d St. and Lexington Ave., to cost $50,000. Arch., Charles Stegmayer, 306 East 82d St.; by Louis Lese, 231 East 6th St., for four 6-story brick flat and store buildings at 105th St. and 1st Ave., to cost $113,000. Arch., G. F. Pelham, 503 5th Ave.; by Geo. A. Fisher, 695 East 141st St., for three 5-story brick dwellings on 90th St., west of Central Park West, to cost $54,000. Arch., G. F. Pelham.

ELIZABETH, N. J.—A. F. Leicht and F. T. Camp, Archs., 97 Cedar St., New York, inform us that they have prepared plans for a new stone church building, with a Sunday-school room, to be one and two stories high, for the Central Baptist Church of this city. It will have a slate roof and will be heated by steam. Bids will be received for erecting the building about Sept. 1.

JERSEY CITY, N. J.—Bids are asked by the clerk of finance committee until Sept. 7 for the purchase of $150,000 of 4% gold public library bonds.

WEST HOBOKEN, N. J.—We are informed that a 2-story brick extension to the building occupied by the Hudson Trust & Savings Institution will be erected by John Larkin, contractor, West Hoboken, to cost about $10,000. All contracts have been let, and no new heating plant will be required. Arch., H. Kreitler, 62 Broad St., New York.

WOODBURY, N. J.—Wm. M. Carter, Cy. Engr., writes us that the contract for building the new fire engine house has been let to John R. R. Fowler at $6,125.

CHESTER, PA.—Plans are being prepared for a new high school building to be erected in Chester at a cost of about $100,000. Arch., Seymour Davis, 907 Walnut St., Philadelphia.

NEW KENSINGTON, PA.—It is stated that the Opera House, Harmer's block, Jacobin's block and dwellings were destroyed by fire last week; loss, $50,000.

PENNSBURG, PA.—P. J. Guthrie, Philadelphia, has been awarded the contract for erecting the new Lutheran Church building at $11,000.

PHILADELPHIA, PA.—Chas. McCaul, 10 North 11th St., is reported to have been awarded the contract for erecting the new 14-story office building for the West End Trust & Safe Deposit Co.

PITTSBURG, PA.—Bids are asked until Sept. 14 for erecting a school building in the 20th ward. Arch., C. M. Bartberger, Westinghouse Bldg.; Secy. Bd. Education, C. M. Sheaffer.

BALTIMORE, MD.—Bids were received by Lieut.-Col. W. A. Jones, U. S. Light-House Engr., Baltimore, Aug. 25, for the construction of the Wade Point Light-House, N. C., as advertised in Engineering News, as follows:

John L. Grim, Philadelphia, Pa.	$16,300
Wilkins & Kuemmerle, Philadelphia, Pa.	10,000
Houston Construction Co., Philadelphia, Pa.	9,150
W. R. Taylor, Norfolk, Va.	9,140
F. C. Artur, Philadephia, Pa.	9,600

WASHINGTON, D. C.—The following bids have been received for the construction of an addition to engine house No. 14 on 8th St., between D and E Sts., N. W.: N. H. Thomas & Co., $5,447; Gleason & Humphreys, $5,701; P. J. Bresnehan, $5,750.

NEWPORT NEWS, VA.—Bids are asked until Sept. 19 for the construction of a brick jail and hospital building. J. A. Massie, Cy. Clk.

PETERSBURG, VA.—Bids are asked for the fireproofing and fitting up with metallic furniture of the clerk's office of this city. Chn. Com., John D. Watkins.

NASHVILLE, TENN.—A fire in this city Aug. 30 is reported to have destroyed $500,000 worth of property. The Phillips-Buttorff Mfg. Co. and A. J. Warren suffered the greatest loss.

COLUMBUS, O.—Bids are asked until Sept. 24 for constructing the new state capitol building. Archs. Hannaford & Sons, 6th and Vine Sts., Cincinnati; Chn. Com., A. S. Bushnell, Columbus; Clk., Opha Moore.

OXFORD, O.—Bids are asked until Sept. 13 for additions to the Miami University and for a steam heating apparatus. W. O. Thompson, Chn. Bldg. Com.

SOUTH BROOKLYN, O.—Bids are asked until Sept. 14 for the purchase of $2,500 of 6% bonds for a city hall. Clk., W. T. Pupikofer.

TOLEDO, O.—Bids are asked until Sept. 6 for the construction of four fire engine houses to be located in this city. Cy. Clk., L. P. Harris.

LOGANSPORT, IND.—A fire in this town, Aug. 23, destroyed all the business buildings, including that of the Chicago Lumber & Coal Co; reported loss, $90,000.

DETROIT, MICH.—Bids were asked until Aug. 30 for furnishing the materials and for constructing a market building at Winder and Russell Sts.; check, $1,000. Pres. Bd. Pub. Wks., D. W. H. Moreland.

CARTERVILLE, ILL.—A fire at this place, Aug. 23, destroyed a number of buildings in the business portion of the town; estimated loss, $75,000.

CHICAGO, ILL.—Frederick Aver, 213 Wabash Ave., has been granted a permit to build a 9-story business block to cost $200,000.——The elevator of the Northwestern Terminal Elevator Co., at Orleans St. and the river front, was destroyed by fire Aug. 22, causing a loss of $150,000, mostly on the building. Secy., E. W. Thompson.

DANVILLE, ILL.—Bids are asked by the National Home for Disabled Volunteer Soldiers, until Sept. 8, for erecting a building for the governor's residence at the Danville branch; also for erecting a guard-house. Address W. C. Gunnell, C. E., 4 Post-Office Bldg., Danville.——The Prox & Brinkman Mfg. Co., Terre Haute, Ind., were the lowest bidders, Aug. 16, for a heating and ventilating apparatus for a mess hall and kitchen buildings for this Home, at $5,290.

CHARLESTON, ILL.—The contract for building the Coles county court house has been let to A. G. Campfield, Richmond, Ind., at $74,500.

WEST SUPERIOR, WIS.—Bids were asked until Aug. 30 for erecting a 9-story theatre and office building for W. H. Miller, according to reports; estimated cost, $110,000. Arch., Geo. O. Garnsey, 185 Dearborn St., Chicago, Ill.

MINNEAPOLIS, MINN.—Pike & Cook, 220 South 4th St., Minneapolis, has been awarded the general contract for rebuilding the Andrus Bldg. at 5th St. and Nicollet Ave., to cost about $100,000. Arch., F. B. Long.

DES MOINES, IA.—S. T. Roberts was the lowest bidder for the erection of a building for the Nichols & Shepard Co., at $16,662.

ROSEDALE, KAN.—Bids are asked until Sept. 2 for constructing an 8-room brick and stone school building. Arch., L. G. Middaugh, Massachusetts Bldg., Kansas City, Mo.; Clk., W. E. Harvey.

TOPEKA, KAN.—The Hope Ventilator Co., 1633 West Prospect Place, Kansas City, Mo., is reported to have been awarded the contract for furnishing and installing the heating and ventilating apparatus at the insane asylum building at $8,549, and that for the Winfield asylum at $5,755.

ST. LOUIS, MO.—Bids are asked by the board of education until Sept. 10 for the erection of two school buildings in this city. Comr., Wm. B. Ittner.

MANDAN, N. DAK.—Bids are asked until Sept. 9 for building two school houses. Clk., J. T. Nelson.

VALLEY CITY, N. DAK.—Bids are asked until Sept. 5 for furnishing the steam heating plant for the court house, according to reports. Chn. County Comrs., E. K. Myhre.

FORT WORTH, TEX.—Bids are asked until Sept. 10 for the construction of the building for a Masonic Widows' and Orphans' Home for the Grand Lodge of Texas, near Fort Worth. Address A. M. Carter, Scott-Harrold Bldg.; Arch., S. B. Haggart, 703 Main St., Fort Worth.

DALLAS, ORE.—Bids are asked until Sept. 8 for the erection of a county court house in this city. E. Hayter, Clk. of County Comrs.; D. D. Neer, Arch., Portland, Ore.

TORONTO, ONT.—The board of control has accepted the bid of the Sprague Co. of New York, for erecting three electric elevators, with a plant for five, in the municipal building, at $26,475.

WATER-WORKS.

OAKLAND, ME.—The Maine Water Co., it is stated, will put in the proposed works in this place at once. The company was recently granted a franchise. W. T. Haines and Geo. Learned, Waterville, Me., are interested.

BOSTON, MASS.—Norcross Bros., Worcester, Mass., have been awarded the contract for building the new low service reservoir at Chestnut Hill, at $182,660. The bids will probably be given in our issue of next week.

SPRINGFIELD, MASS.—Local papers state that the commissioners expect to recommend to the next city government measures for improvements to the works and water supply, to cost from $100,000 to $300,000. F. A. Holden, Clk.

ALDEN, N. Y.—This place has voted to issue $18,000 in bonds for works.

BAINBRIDGE, N. Y.—C. E. Clark writes us that the corporation has not decided the question of new works. There is a plant in operation owned by the Bainbridge Water Works Co. It is said to be not entirely satisfactory. Population (1890), 1,050.

COPENHAGEN, N. Y.—Surveys for works are being made. It is proposed to secure a water supply from a lake in Pinckney, about five miles distant.

ELLIS ISLAND, N. Y.—Holmes & Cogan, Jersey City, were awarded a contract, Aug. 29, by the United States Government to lay a water pipe from the foot of Phillip St., Jersey City, to Ellis Island. The pipe line will be 2,000 ft. long, and the contract price is $14,045. The city will receive $100 a 1,000,000 gallons for all water furnished, but the quantity that will be needed will not be known until the supply is turned on. It is stated that it was for this reason that Jersey City insisted that the Government should pay for the laying of the pipe.

ROME, N. Y.—Morton & Hill, Attica, N. Y., have been awarded the contract at $10,290, for furnishing and erecting the water tower at the Rome State Custodial Asylum.

WHITESBORO, N. Y.—This place voted Aug. 26 against building works.

CAMDEN, N. J.—Chas. A. Hague, 39 Cortlandt St., New York, has been selected to test the water-works.

HIGHBRIDGE, N. J.—H. Satimer, Borough Clk., writes us that the proposed gravity works will cost about $12,000. The question of making the improvement has not yet been voted upon. Population, 1,300.

JERSEY CITY, N. J.—Bids are asked until Sept. 6 for furnishing 90 dozen ⅝-in. stop cocks, 50 dozen ¾-in., 25 dozen 1-in., and 6 dozen 1¼-in. stop cocks, about 10,000 lbs. of lead, etc. Geo. T. Bouton, Clk. Bd. St. and Water Comrs.

MILFORD, N. J.—The council is considering propositions for building works.

SALEM, N. J.—We are informed that the contract for furnishing the pump for the filter plant at the water-works has been let to Henry R. Worthington, 86 Liberty St., New York, at $987; that for the filter basin was let to C. J. Young and Jos. H. Young, 4618 Chester Ave., Philadelphia, at $3,100.

SPRING LAKE, N. J.—It is stated that the council has appropriated $70,000 for new works.

BRADDOCK, PA.—This place voted, Aug. 23, to issue $81,000 in bonds to complete the works.

LEBANON, PA.—At the last meeting of councils ordinances were passed extending the water mains from Willow St. through Pheasant alley to Spring alley; and also for laying 8-in. water mains in Church St., from Sixth St. to Fifth St. An ordinance has been passed providing for 25 additional fire hydrants. J. D. Kerr, Secy. Water Board; Geo. W. Hayes, City Engr.

PHOENIXVILLE, PA.—M. P. Quinn, Pottsville, Pa., has been awarded the contract for laying water pipe in this city, according to reports.

PHILADELPHIA, PA.—Bids are asked until Sept. 6 for furnishing a permanent water supply in connection with the Pennsylvania Ave. subway and tunnels. Thos. M. Thompson, Dir. Pub. Wks.

DELAWARE CITY, DEL.—It is reported that the contractors have begun the construction of the proposed works. C. Taylor Leland, Quakertown, Pa., may be addressed.

MIDLAND, MD.—The question of building works to cost about $8,000 is being considered. It is proposed to secure the water supply from Mathes Run, about three miles distant.

POCOMOKE CITY, MD.—Bids are asked until Sept. 14 for constructing works and a sewerage system, as stated in our advertising columns. (Postponement from Sept. 7.) Engrs., Pownall & Minshall, 150 Nassau St., New York; Mayor, R. M. Stevenson.

WASHINGTON, D. C.—Bids for driving deep wells have been received from the following: Rust Well Machinery Co, Ithaca, N. Y.; J. E. Thomas & Son, Lyons, Pa.; Lebanon Valley Artesian Well Co., Lebanon, Pa.; C. Gruver, Alliance, Va.; Wm. C. Miller, Anacostia, D. C.; W. E. Dewitt and Prather & Niemyer, Washington, D. C.

BRISTOL, VA.—Bids are asked until Sept. 21 for furnishing the materials and constructing the proposed works, according to reports. It is proposed to secure a supply of 250,000 gallons of water a day from artesian wells, which have already been driven. Population (1890), 3,000. J. D. Mitchel, Chn. Com.

MOUNT PLEASANT, S. C.—The council is considering the question of securing a water supply. It has not been decided whether to use a standpipe or artesian wells. Intendant, R. V. Royall.

ELBERTON, GA.—An election will be held Sept. 20 to vote on the question of awarding a contract to Geo. J. Baldwin, Savannah, Ga., and 39 Cotton Exchange Bldg., New York; estimated cost of works, $25,000.

SYLVANIA, GA.—The question of issuing bonds for an artesian well for a water supply will probably soon be voted upon.

TUSCUMBIA, ALA.—The question of building works to cost about $25,000 is being considered, according to reports. It is proposed to secure the water supply from Big Spring.

LAKE PROVIDENCE, LA.—It is stated that R. L. Hill wishes to secure prices for machinery for works and a light plant.

JACKSON, O.—The question of building works will be voted upon Sept. 19.

NEW RICHMOND, O.—This place will vote, Sept. 6, on the question of issuing $30,000 in bonds for works and a light plant. Engr., E. F. Layman, 32 East 3d St., Cincinnati.

McCONNELSVILLE, O.—An election will be held Sept. 19 to vote on the question of issuing $20,000 in bonds for works.

MOUNT GILEAD, O.—Geo. J. Young, Clk., writes us that this place voted Aug. 27 against issuing $33,000 in bonds for works and a light plant. It is probable that another election will be held.

ATTICA, IND.—Work on the new reservoir has been begun and it will be completed this fall; its capacity will be 500,000 gallons, and it will be covered with masonry arches. J. A. Foster & Co. are the contractors, and Alvord & Shields, Chicago, Ill., the designing and constructing engineers.

DELPHI, IND.—The report made to the council by Alvord & Shields, The Rookery, Chicago, has been adopted and the changes in the works are being carried out under their direction. Bids for a new 1,000,000-gallon pump have been received. A 100,000-gallon reservoir is being built.

LA PORTE, IND.—We are informed that this city voted Aug. 23 to secure a new water supply. The new supply will probably be secured from Little Kankakee River, requiring an extension of four miles of 20-in. pipe; but the question of the source is still under discussion; estimated cost, $70,000. Population, 10,000. W. C. Weir and Milton J. Henoch, Cy. Engr., may be addressed.

MARION, IND.—Bids are asked by the city clerk until Sept. 3 for laying water pipe in a number of streets.

NEW ALBANY, IND.—Local papers state that the new water company has applied for a franchise.

LAKE ODESSA, MICH.—Wm. H. McCartney, Village Pres., writes us that this place will put in works this fall to cost about $10,000. The contract will probably be let in about two weeks.

LESLIE, MICH.—The question of issuing bonds for works is being considered.

MOUNT PLEASANT, MICH.—Riggs & Sherman, Toledo, O., have been engaged to prepare plans for works and a sewer system for the U. S. Indian School here. Supt., R. S. Graham.

ALEXIS, ILL.—Bids are asked by the city clerk until Sept. 1 for the purchase of $3,000 of 6% water-works improvement bonds.

DUBUQUE, IA.—E. C. Blake, Cy. Engr., writes us that the city has served notice on the Dubuque Water Co. of its intention to buy the works. The company will have six

months' time in which to prepare for the sale, according to its charter. The works will be remodeled and put in first-class condition. The plant contains about 44 miles of mains varying in size from 4 to 16 ins.; 353 hydrants, standpipes, pumps, reservoir, etc. It is probable that the city will no more than get the purchase question settled before some time next year. It is hoped, however, to have everything in shape for next season.

EARLING, IA.—This place is reported to have voted to build works.

MAYNARD, MINN.—Bids are asked until Sept. 5 for building the proposed works, according to reports. K. H. Holian, Recdr.

MINNEAPOLIS, MINN.—We are informed that the following bids were received Aug. 26 for furnishing one or two 10,000,000-gallon pumping engine, as advertised in Engineering News; F. W. Cappelen, Cy. Engr.:

Bidder.	—Engines— One.	Two.
The Holly Mfg. Co., Lockport, N. Y.	$41,000	$80,500
Lake Erie Eng. Works, Buffalo, N.Y.	57,250	109,500
Wilson-Snyder Mfg. Co., Pittsburg, Pa.	47,500	92,000
Henry R. Worthington, New York, N. Y.	42,300	82,800
Edw. P. Allis Co., Milwaukee, Wis.	48,000	94,000

WALKER, MINN.—Bids are asked until Sept. 6 for furnishing the materials and for building works; estimated cost, $6,000. Pres., Chas. Kinkele; Recdr., M. J. Quam.

DEADWOOD, S. DAK.—Francis C. Tucker, Cy. Engr., writes us that the contract has been let for the excavation to bed rock at the dam site for the extensions to the works. The water collected there will be brought in an 8 or 10-in. pipe about 1½ miles, and then pumped about 100 ft., so as to be added to the present supply. The addition will be about 500,000 gallons a day. This supply will be used as an auxiliary in case of the shortness of the present supply. D. A. McPherson, Chn. Com.

SIOUX FALLS, S. DAK.—Local papers state that W. R. Coates, Ypsilanti, Mich., will make a proposition for building new city works. S. B. Howe, Cy. Engr., writes us that nothing has yet been done toward the proposed new works.

JAMESTOWN, N. DAK.—The question of sinking a second and larger artesian well is being considered. The present well is 2 to 4 ins. in diameter and 1,467 ft. deep.

GREAT FALLS, MONT.—This city voted Aug. 20 to purchase the works of the Great Falls Water Co. for $375,000.

GOLDFIELD, COLO.—This place voted Aug. 24 to build works. It is stated that the water supply will be secured from Victor.

PUEBLO, COLO.—A new main will be built to Dundee. Trustees Davis and Mattice may be addressed. Consult. Engr., Jno. W. Hill, Cincinnati, O.

SEDALIA, MO.—L. P. Andrews, Secy. and Treas. Sedalia Water & Light Co., writes us that the works will have a general overhauling. The machinery will be repaired, the pumping station remodeled, a new reservoir, nine miles from the pumping station completed, and a conduit laid to connect the same. Part of the work will be let, the balance will probably be done by the company.

SEATTLE, WASH.—Local papers state that the commission will ask for bids about Sept. 10 for furnishing the materials and for constructing the Cedar River water-works addition. Plans and specifications are about completed, having been prepared under the direction of G. N. Miller, Asst. Engr. The improvements will cost about $1,000,000. Geo. Cotterill, Acting Cy. Engr.

OAKLAND, CAL.—The Contracosta Water Co. proposes to lay about 12 miles of water pipe from the artesian belt for an increased water supply.

SAN MATEO, CAL.—Geo. A. Kertell, Chn. Water Com., writes us that the city contemplates the construction of city works. The question of issuing $80,000 in bonds for the improvement will be voted upon Oct. 22. Chas. E. Moore, Santa Clara, Cal., has prepared preliminary plans and estimates. Population, $1,500. Pres., Bd. Trustees, A. B. Ford; Cy. Clk., R. H. Jury.

SAUSALITO, CAL.—M. M. O'Shaughnessy, 191 Crocker Bldg., San Francisco, is reported to have been engaged to make a report for an increased water supply.

VALLEJO, CAL.—The city trustees have made a survey for an increased water supply from Dugroad Creek, according to reports. Trustees Cooper and Rounds may be addressed.

TEMPE, ARIZ.—It is stated that the council wishes to receive proposals until October for a franchise for supplying this place with water.

MANTI, UTAH.—The question of securing an increased water supply from Funks Lake is being considered. The lake is six miles distant. Population (1890), 2,000.

ALMONTE, ONT.—The question of building works to cost about $50,000 is being considered. Town Clk., L. Coulter.

FRASERVILLE, ONT.—Thos. Crocket, Supt. Temisconata Ry. Co., Riviere du Loup, Que., has been granted a franchise for the proposed works. Engr., C. E. Hoare.

HINTONBURG, ONT.—E. J. Rainboth, Ottawa, is stated to have been granted a franchise for works, the construction to be begun at once.

PETERBORO, ONT.—It is reported that McQuillan & Co., Toronto, submitted the lowest bid at $6,295 for construction of the works at Ashburnham.

WIVENHOE, ENGLAND.—Bids, plans, etc., are asked until Sept. 29 for the proposed water supply for this place. Clk., C. W. Denton, 8 East Stockwell St., Colchester.

HONOLULU, HAWAIIAN ISLANDS.—Gear, Lansing & Co. propose to build works at the Diamond Head addition, according to reports. It is said that a 4,000,000-gallon pump will be purchased from Henry R. Worthington, New York. Supt., Andrew Brown.

IRRIGATION.

LONG CREEK, ORE.—It is reported that Godfrey & Tabor intend to run a ditch to tap Olive Lake. It will be 9 miles long and will cost about $15,000.

WOODBRIDGE, CAL.—The plant of the Woodbridge Canal & Irrigation Co. was sold at auction by Judge Morrow, Aug. 10, to G. Howard Thompson, at $21,000, according to reports.

SALT LAKE CITY, UTAH.—The Davis & Weber Counties Canal Co. has decided to let the contract for the building of the East Canyon dam to Parker, Ferrin Bros. and the Andrews Bridge Co. on a combination bid. The dam is for a reservoir in East Canyon back of Weber Canyon, from which to draw the late water supply for the Davis and Weber counties canal. The work will cost about $35,000.——Press reports state that H. B. Windsor, Pres. Utah Irrigation Co., Salt Lake City, is buying the necessary material for the extension of the company's pipe lines in the southwestern part of Utah, 250 miles south of Salt Lake City.

NEW COMPANIES.—Summer Lake Irrigation Co., Ana River, Township 30, Lake county; $10,000; W. H. Butts, D. S. Dufur, C. C. Hutchinson.

McPherson Irrigating Ditch Co., Gate, Okla., and Englewood, Kan.; to use the water in the Cimarron for irrigation purposes; Benj. F. McPherson, Blair F. Ruth and Ira M. Hewins, of Englewood, Kan.

West Fork Ditch Co.; $5,000; to build ditches in Choteau county, near Chinook; A. J. Davidson, Helena, Mont.; F. D. Parker and Winfield S. Reinbolt, of Chinook, Mont.

Spring Lake Irrigation & Improvement Co., Klamath Falls, Ore.; $10,000; James W. Jory and Charles F. Jory.

Lower Lathan Reservoir Co., Greeley, Colo.; $20,000; to build a reservoir covering 702½ acres east of La Salle, and to have a capacity of about 150,000,000 gallons; Pres., Asa Sterling; Vice-Pres., H. A. Irons; Secy., J. B. Phillips; Treas., A. J. Park.

Full Creek Ditch & Reservoir Co., Denver, Colo.; $64,000; to operate in San Miguel and Montrose counties; L. G. Gray, L. F. Watts and Sadie M. Gray.

SEWERAGE.

DANVERS, MASS.—It is stated that work has been begun on the new system for the Danvers hospital. The contract was recently awarded to F. C. Trumbull & Co., Boston, at $8,300. Snow & Barber, Boston, are the engineers who have the work in charge. The plant is on the west side of Dayton St., Danvers Center, and there are to be 10 filter beds, with 6 and 8-in. pipes leading from Asylum Hill. The largest beds are to be about 100 ft. square.

FALL RIVER, MASS.—Estimates are being prepared for sewers in a number of streets.

HOLYOKE, MASS.—The plans prepared by the city engineer for the new sewer for the Highlands have been approved by the state board of health.

PALMER, MASS.—C. T. Brainerd has been awarded the contract for building the sewers in Depot village, according to reports.

PROVIDENCE, R. I.—Bids are asked until 11 a. m. Sept. 2, for constructing about 2,000 ft. of 34 to 20-in. brick and 3,500 ft. of 18 to 8-in. pipe sewers, etc. Robt. E. Smith, Comr. Pub. Wks.

COHOES, N. Y.—Local papers state that the plans for a system marked "I X L," prepared by Hunter & Fernald, Melrose, Mass., have been adopted by the commission. These plans were described in our issue of Aug. 18. Estimated cost, $127,792.

PHILLIPSBURG, N. J.—Jas. E. Smith, Town Surv., writes us that T. S. Pursell has been awarded the contract for building 5,400 ft. of 24 to 12-in. pipe sewer, at about $6,000. S. P. Stone, Chn. Com.

TRENTON, N. J.—Bids are asked until Sept. 6 for constructing pipe sewers in certain streets, brick paving, etc. C. Edward Murray, Cy. Clk.

WOODBRIDGE, N. J.—An election will be held Sept. 20 to vote on the question of building sewers.

GETTYSBURG, PA.—The question of improving the system is being considered, according to reports. J. L. Kendlehart, Clk. Council.

HAZLETON, PA.—The question of building sewers in certain streets is being considered.

MERCER, PA.—This place voted Aug. 23 to issue bonds for a sewer in the east side.

MERCER, PA.—Bids are asked until 12 m., Sept. 2, for constructing 12,565 ft. of 10 to 6-in. pipe sewers. Engr., Geo. Zahnises, New Castle, Pa.; Clk., J. M. Campbell.

PHILADELPHIA, PA.—Bids are asked until Sept. 6 for constructing branch and main sewers, etc. Thos. M. Thompson, Dir. Pub. Wks.

RANKIN, PA.—This place has voted not to issue $25,908 in bonds for continuing the construction of the system.

WASHINGTON, D.C.—Bids are asked by the District Commissioners until Sept. 17 for constructing sewers, as stated in our advertising columns.

POCOMOKE CITY, MD.—Bids are asked until Sept. 14 for building a system and water-works, as stated in our advertising columns. (Postponement from Sept. 7.) Engrs., Pownall & Minshall, 150 Nassau St., New York; Mayor, R. M. Stevenson.

PARKERSBURG, W. VA.—Bids are asked until Sept. 13 for furnishing the material and for laying 1,400 ft. of 8-in. pipe sewer and brick pavement in two streets. W. T. Rittenhouse, Clk.

HENDERSON, KY.—Bids are asked until Sept. 6 for constructing a sewer in a certain street. W. I. Thompson, Mayor.

CLEVELAND, O.—Bids are asked until Sept. 8 and 15 for constructing sewers. Geo. R. Warden, Dir. Pub. Wks.

CLEVELAND, O.—Plans have been adopted for the reconstruction of the 5-ft. Taylor St. brick sewer.

COLUMBUS, O.—Bids are asked until Sept. 6 for constructing sewers in district 1. Jas. A. Fanning, Clk. Bd.

NILES, O.—Wm. Wilson, Cy. Engr., writes us that it is proposed to build about two miles of 40 to 8-in. brick and pipe sewers; average cut, 10 ft.

SHELBY, O.—Bids are asked until Sept. 19 for constructing six miles of lateral sewers. W. F. Sonnastine, Clk.

WELLSVILLE, O.—A. P. Dennis, Mayor, writes us that there has been no definite action taken in regard to a system, noted in our issue of Aug. 18. The question is being considered and will probably be voted on at the election in November.

HAMMOND, IND.—Bids are asked until Sept. 8 for constructing 860 ft. of two-ring 3½ ft., 1,290 ft. of two-ring 4 ft. and 250 ft. of three-ring 4-ft. brick sewer in West Hammond. Clk., Martin H. Finneran.

HARBOR SPRINGS, MICH.—Geo. S. Pierson, Kalamazoo, Mich., is preparing plans for sewers for Harbor Point summer resort.

LAURIUM, MICH.—Jos. R. Murphy, Clk., writes us that this place voted July 23 to issue $35,000 in bonds for the proposed system. Bids for the construction will probably be asked in January or February. Engr., C. F. Loweth, 94 East 3d St., St. Paul, Minn.

MOUNT PLEASANT, MICH.—Riggs & Sherman, The Nasby, Toledo, O., have been selected to prepare plans and specifications for water-works and sewers for the United States Indian School at Mount Pleasant. R. S. Graham, Supt.

CHICAGO, ILL.—The trustees of the Illinois & Michigan Canal have employed Alvord & Shields, The Rookery, Chicago, to report upon the proposed plans of the sanitary district of Chicago for changes in the canal between Lockport and Joliet. The question involves power as well as navigation interests, and arises from the increased flow of water which will be caused by the operation of the Drainage Canal.

SYCAMORE, ILL.—The council has decided to adopt the separate system of sewers, with sewage disposal works. It has engaged Alvord & Shields, 1140 The Rookery, Chicago, to prepare plans and to superintend the construction of the main outlet sewer, which will be built this fall.

MONMOUTH, ILL.—It is proposed to construct sewers in several streets.

BURLINGTON, IA.—The council has appropriated $6,000 to arch the Hawkeye sewer.

CALLENDER, IA.—Bids are asked until Sept. 7 for constructing certain sewers, according to reports. C. C. Rasmussen, Chn. Com.

SIOUX CITY, IA.—The question of additional sewers in Fourth and Water Sts. is being considered.

FARIBAULT, MINN.—Bids are asked until Sept. 12 for constructing 2,525 ft. of sand-rock tunnel, about 8,500 ft. of 15 to 8-in. pipe sewer, 27 manholes, etc. Engr., C. F. Loweth, 94 E. 4th St., St. Paul, Minn., and Davenport, Ia.; Mayor, P. F. Ruge.

FARGO, N. DAK.—S. F. Crabbe, Cy. Engr., writes us that it is proposed to build 3,200 ft. of 12-in. pipe sewers in 2d and 4th Sts.

GRAND FORKS, N. DAK.—Bids will soon be asked for sewers in certain streets. John Dinnie, Mayor.

COLUMBIA, MO.—This place will vote Sept. 27 on the question of building a system to cost $28,000.

JOPLIN, MO.—This place voted Aug. 23 to raise $30,000 by direct taxation for additional sewers.

SEDALIA, MO.—The council has voted to build sewers in two new districts. Mayor Overstreet may be addressed.

HOUSTON, TEX.—Bids are asked until Sept. 12 for constructing a brick sewer in the Riverside and Washington Road. County Judge W. N. Shaw.

SANTA ANA, CAL.—Bids are asked until Sept. 15 for furnishing the materials and for constructing 10,000 ft. of pipe sewer, a sewage disposal plant, etc., according to reports. Edward Telford, Cy. Clk.

SAN LUIS OBISPO, CAL.—An election will be held Sept. 5 to vote on the question of issuing $36,000 in bonds for a system. Cy. Clk., J. A. Goodrich.

OTTAWA, ONT.—Alderman Davis, Chn. Com., is urging the council to adopt plans for the disposal of sewage into the Ottawa River, the outlet sewers to be built to the middle of the stream.

TORONTO, ONT.—Dr. Sheard, of the board of health, and Alderman Crane have secured information, etc., for the disposal of sewage by precipitation and by filtration.

GARBAGE DISPOSAL—STREET CLEANING

CHESTER, PA.—B. R. Myers, of the councils, has recommended that steps be taken at once for building a plant to cost about $5,000.

LANCASTER, PA.—The council received the following bids Aug. 24 for cleaning and sweeping the streets from Sept. 1 to April 1: Adam M. Diller, $1,800; Frank B. Kendig, $1,840; Vincent Pfau, $2.25 a sq. a week—cleaning twice a week; I. M. Bernard & Bro., $1,600; A. Steinwandel, $3,433 a year; H. N. Herr, $1,675; Andrew Mehaffy and August Nutto, $1.25 a sq. a week; Jacob Workman, $1,750; F. H. Wilhelm, $2 a sq. a week, if city furnishes sweepers, and $3 if bidder furnishes sweepers.

CUMBERLAND, MD.—The question of a better method of garbage collection and disposal is being urged by the newspapers.

HAGERSTOWN, MD.—The council, it is stated, will soon consider the question of a garbage disposal plant.

HAMILTON, O.—Bids are asked until Sept. 6 for furnishing a street sweeper. M. O. Burns, Cy. Clk.

DETROIT, MICH.—Local papers state that Nettleton & Kahn, 1117 Union Trust Bldg., have prepared plans for a garbage crematory, office, stables, etc., for the Detroit Sanitary Co., at French's Landing. Mgr., M. H. Chamberlain, 51 Woodward Ave.

STREETS AND ROADS.

BOSTON, MASS.—The street commissioners have ordered the construction of 15 streets in various parts of the city. Benj. W. Wells, Supt. of Sts.

LOWELL, MASS.—Bids are asked until Sept. 2 for about 5,800 sq. yds. of asphalt for paving Aiken St., from Cheever St. to the Aiken St. bridge, over the Merrimack River; check, $500. Cleveland J. Cheney, Supt. of Sts.

MELROSE, MASS.—At a town meeting, Aug. 18, it was voted to borrow $3,500 for highway purposes. W. De Haven Jones, Town Clk., pro tem.

PEPPERELL, MASS.—Bids are asked until Sept. 2 for building 6,270 ft. of highway; check, $250. Geo. Jenks, Chas. H. Miller and Chas. B. Taft, Selectmen.

ROSLINDALE, MASS.—J. McGraw & Co. have been awarded the contract, at $14,510, to construct a macadam road near here.

ALBANY, N. Y.—Bids are asked until Sept. 6 for excavating, filling and vitrified brick paving Elm St. from Delaware Ave. to Grand St. Bond, $5,000. Thos. J. Lapahan, Clk.

BINGHAMTON, N. Y.—Bids are asked until Sept. 6 for paving Collier St. and Academy St. with vitrified brick (two contracts). Burr W. Mosher, Cy. Clk.

BUFFALO, N. Y.—Bids are asked until Sept. 2 for constructing a bicycle path along Scajaquada Creek. G. H. Selkirk, Secy. Park Comrs.

NEW ROCHELLE, N. Y.—The board of trade has issued an appeal to the taxpayers to vote in favor of appropriating $150,000 for street improvements. J. Hollwegs, Frank J. New and Jas. D. Foot, Com.; H. S. Clarke, Village Pres.

ROCHESTER, N. Y.—Bids are asked by the executive board, City Hall Bldg., until Sept. 6 for paving North Clinton St. with asphalt, to cost about $78,000, and for a plank walk on North Joiner St., estimated to cost $2,200.

SCHENECTADY, N. Y.—Bids are asked until Sept. 6 for 6,000 sq. yds. of Catskill shale brick paving or other brick equally good for Front St. Also until Sept. 6 bids for paving Steuben St; quantities not stated. L. B. Sebring, Cy. Engr.

ATLANTIC CITY, N. J.—The council has passed an ordinance authorizing the construction of a public walk, 40 ft. wide, between Massachusetts and Texas Aves., an elevated walk, 40 ft. wide of iron or seel and wood, between Massachusetts and Vermont Aves., an elevated walk, 20 ft. wide, between Texas and Albany Aves., and an elevated walk, 20 ft. wide, between Vermont and Atlantic Aves. Emery D. Irelan, Cy. Clk.; John P. Ashmead, Cy. Engr.

GLOUCESTER CITY, N. J.—Bids are asked until Sept. 1 for paving Broadway, between Salem and Market Sts., with rubble, asphalt or Belgian blocks; check, $100. Edw. J. O'Hara, Chn. St. Com.; Danl. F. Lane, Cy. Clk.

VINELAND, N. J.—Bids are asked until Sept. 13 for paving Landis Ave., from the Boulevard to 6th St. Wm. E. Allen, David W. Sigafoo and John A. Ackley, Com.

ALLEGHENY, PA.—Bids are asked until Sept. 5 for regrading and repaving Pennsylvania Ave., from Allegheny Ave to Beaver Ave. Robt. McAfee, Dir. Pub. Wks.

CHESTER, PA.—Bids are asked until Sept. 5 for paving Market St. with asphalt, from Market Sq. to 6th St.; check, $1,000. W. T. Cullis, Chn. Com. on Sts.; Frank W. Harrison, Cy. Clk.

EASTON, PA.—Hugh E. Crilly, Allentown, has been awarded the contract for paving Main St. with vitrified brick. About 400 carloads of 20 tons each will be required, it is stated. C. J. Lutjen & Son, Long Island City, N. Y., have received a contract for macadam paving which will require over 8,000 tons of trap rock. H. R. Fehr, Cy. Engr.

HAZLETON, PA.—The council has passed an ordinance authorizing the city engineer to receive bids for 10 trapped inlets with catchbasins, etc. A. Brooks Cellax, Cy. Engr.

LANSDOWNE, PA.—An election will be held Sept. 20 to vote on the question of issuing $5,000 in bonds for street improvements, according to report. Thos. G. Janier, Borough Surv.

OAKMONT, PA.—It has been voted to issue $65,000 in bonds, of which $16,000 will be for improving the streets, according to report.

READING, PA.—The Pennsylvania Asphalt Paving Co. was awarded the contract, Aug. 18, for asphalt paving, at $72,210. The other bids received were: Barber Asphalt Paving Co., $96,280; Alcatraz Co., $74,285, and Richardson & Ross, $81,755. Other contracts have been awarded as follows: For grading Wunder St., W. T. Snyder, $846; for Paving Elm St., Court St. and Peach St., Saml. Bobst, $1,650; for paving Weimer St., Fred. Barth and Henry K. Noll, $544.

SCRANTON, PA.—Bids are asked until Sept. 1 for paving Quincy Ave. with asphalt, from Pine St. to Gibson St.; check, $100. M. T. Lavelle, Cy. Clk.

SHAMOKIN, PA.—Bids are asked until Sept. 9 for 12,000 sq. yds. of brick paving; estimated cost, $19,500. O. J. Reed, Pres. of Council; Chas. H. Douty, Engr.; M. C. Farrow, Ch. Burgess.

YORK, PA.—C. W. Brant, Mayor, writes us that the council has under discussion a popular loan of $500,000 for street improvements, which has not yet assumed definite shape. R. J. McKinnon, Cy. Engr.

HAGERSTOWN, MD.—E. G. Buck has been awarded the contract for vitrified brick paving two blocks on Franklin St., at $1.22 a sq. yd., according to report. Jacob Zeigler, Supt. of Sts.

WASHINGTON, D. C.—The following contracts are reported to have been awarded for vitrified paving bricks: Camden Clay Co., 100,000; J. H. Guise, 200,000; McMahon, Porter & Co., 900,000.——The district commissioners have ordered the following streets to be resurfaced: 20th St., from Pennsylvania Ave. to F St.; G St., between 17th and 19th Sts.; G St., from 21st to 22d St.; roadway around Scott Circle; 14th St. and Massachusetts Ave.; estimated cost of the work, $26,000.

PARKERSBURG, W. VA.—The Camden Clay Co. has been awarded the contract to pave the Northwestern Turnpike with brick, from the city limits to Park Ave. John V. Dunbar, Cy. Engr.

BIRMINGHAM, ALA.—C. M. Burkhalter & Co. have been given the contract for grading and macadamizing 8th Ave., between 24th and 25th Sts., and Dunn & Lallande have secured the contract for grading and macadamizing 11th Ave. South, between 19th and 20th Sts. Julian Kendrick, Cy. Engr.

LOUISVILLE, KY.—It is reported that the board of public works will advertise for bids for improving alleys, streets and sidewalks in a few days. Chas. F. Granger, Chn. Bd. Pub. Wks.

BARNESVILLE, O.—The following bids were received Aug. 22 for road improvements: H. E. Alexander, St. Clairville, O., $5,126 (accepted); First National Bank, Barnesville, $5,109; Huhn & Sons, Cincinnati, $5,084; Seasongood & Mayer, Cincinnati, $5,076; Lamprecht Bros. & Co., Cleveland, $5,063; Hays & Son, Cleveland, $5,053, and Briggs, Smith & Co., Cincinnati, $5,042. S. B. Pipe, Township Clk.; Geo. H. Buchanan, Cy. Engr.

CINCINNATI, O.—Bids are asked until Sept. 2 for the improvement of Guy St. from Warner St. 357 ft. north. A. B. Ratterman, Pres. Bd. of Cy. Affairs; Geo. H. Spellmire, Clk.

CLEVELAND, O.—C. H. Strong & Son have been given the contract for the Edgewater Park shore improvement, which has been advertised five times. The contract price is $38,836. Contracts were also let Aug. 24 to Burnett & Ross for stone masonry, near Euclid Ave. in Rockefeller Park, at $15,730, and to the same firm for shore protection of Gordon Park, at $2,700. C. W. Pratt, Jr., Ch. Engr.

COLUMBUS, O.—The following contracts were awarded Aug. 22 for street improvements: West Park Ave., N. B. Abbott, $9,280; Harris Ave., N. B. Abbott, $2,567; State St., N. B. Abbott, $3,962; Gay St., John B. Crowe, $339; Second Ave., John Minton, $379.——Bids are asked until Sept. 6 for grading and macadamizing 4th Ave. from 4th St. to its eastern terminus; check, $100. Jas. A. Fanning, Clk. Bd. Pub. Wks.

LEIPSIC, O.—Bids are asked until Sept. 2 for constructing the Easton, Pearl and Belmore St. improvement; check, $1,000. Also bids are asked until Sept. 2 for constructing the East Defiance St. extension improvement; check, $500. Andrew A. Kober, Clk.

TOLEDO, O.—Bids are asked until Oct. 3 for improving Ontario St., from Stickney Ave. to Ash St. Lem P. Harris, Cy. Clk.

ALEXANDRIA, IND.—Bids are asked until Sept. 10 for improving John St. by grading, curbing and paving the sidewalks and gutters with brick; check, $500. Bids are also asked until Sept. 14 for improving Canal St. from Water St. to Broadway by grading, curbing and paving the roadway and sidewalks with vitrified brick; check, $500. G. A. Gessner, Jr., Cy. Engr.

RICHMOND, IND.—Bids are asked until Sept. 2 for vitrified brick sidewalks, gutters, sewer, etc., on Main St. from Ft. Wayne Ave. to 2d St.; check, $500. Jos. H. Winder, Clk. of Bd.

BAY CITY, MICH.—Bids are asked until Sept. 6 for paving South Union St. from Henry St. to Washington St. with brick. John Kelly, County Engr.

DETROIT, MICH.—J. M. O'Rourke has been awarded the contract for paving Logan Ave. with disintegrated granite, at $19,791. The Colorado Paving Co. bid $24,096, and Chas. Conner, $20,142. D. W. H. Moreland, Comr. Pub. Wks.; H. D. Ludden, Cy. Engr.——Bids will soon be asked for paving Second Ave. with asphalt. Robt. Y. Ogg, Secy. Bd. Pub. Wks.

BELLEVILLE, ILL.—The Myers Construction Co., St. Louis, Mo., has been given the contract for paving East Main St. with Wabash brick, at $16,125. Louis Graner, Cy. Engr.

LAKE FOREST, ILL.—Bids are asked until Sept. 5 for 716 lin. ft. of cement curbing and 7,800 sq. ft. of cement sidewalk; check, $100. Jas. Anderson, Jr., Cy. Engr.

MILWAUKEE, WIS.—The Western Paving & Supply Co. has been given the contract to asphalt Newberry Boulevard, at $42,245. The Warren-Scharf Asphalt Paving Co., New York, was given the contract to construct the asphalt pavement on 5th St., from Wells to Cedar Sts., at $5,709; Shepard Ave., from Burleigh St. to Hartford Ave., at $6,433, and Franklin Place, from Prospect Ave. to Knapp St., at $863. G. H. Benzenberg, Cy. Engr.

SHEBOYGAN, WIS.—Bids are asked until Oct. 1 for furnishing a steam road roller, f. o. b. Sheboygan, as stated in our advertising columns. Pres. Bd. Pub. Wks., A. J. Mallmann; Comptroller, Jno. Schmidt.

WATERTOWN, WIS.—Bids are advertised until Sept. 17 for furnishing the material and for brick paving, as stated in our advertising columns. Pres. Bd. Pub. Wks., Harlow Pease.

CEDAR RAPIDS, IA.—G. H. Merridith, Cy. Engr., writes us that he has been directed by the council to prepare plans and specifications for asphalt paving on 1st Ave., from 10th to 13th Sts.

DES MOINES, IA.—Bids are asked until Sept. 5 for about 4,700 sq. yds. of vitrified brick paving on 11th St., from Forest Ave. to College Ave.; bond $1,000. G. A. Eberhart and C. E. Campbell, Bd. Pub. Wks.; Geo. M. King, Cy. Engr.

OMAHA, NEB.—Bids are asked until Sept. 9 for improving 24th Ave., from Harney St. to St. Mary's Ave., with asphalt, brick or stone paving, curbing, etc.; check, 2% of bid. Andrew Rosewater, Chn. Bd. Pub. Wks.; Wm. Coburn, Secy.

FARGO, N. DAK.—S. F. Crabbe, Cy. Engr., writes us that the council has created seven improvement districts and will ask for bids for paving the same with cedar blocks; about four miles of paving in all.

GRAND FORKS, N. DAK.—Correspondence from contractors is solicited in regard to paving about four miles of streets with cedar blocks; also for macadamizing, brick paving, curbing, etc. Alex. Oldham, Cy. Engr.; F. A. Brown, Cy. Audr.

JEFFERSON CITY, MO.—The council has voted to pave Madison St., between High and Main Sts., with vitrified brick. E. F. C. Harding, Cy. Engr.

ST. LOUIS, MO.—The county court has ordered 14 miles of telford paving, according to report. A. N. Milner, St. Comr.

SPRINGFIELD, MO.—Williams Bros. were awarded the contract Aug. 22 for the construction of sidewalks on Sherman, Clay, Calhoun, Court, Lynn, South and Smith Sts., and on Washington Ave. T. A. White, Cy. Engr.

GALVESTON, TEX.—J. M. Griswold has been awarded the contract, according to report, to shell the main land roads. R. H. Peek, Cy. Engr.

HOUSTON, TEX.—Bids are asked until Sept. 12 for work on Riverside and Washington and San Felipe Road; check, $200. W. N. Shaw, County Judge, Harris county.

DENVER, COLO.—J. P. O'Rourke has been awarded the contract to grade, curb and drain Logan Ave., at $19,791. Wm. T. Davoren, Comr of Highways.

SPOKANE, WASH.—The City Street Improvement Co. has been awarded the contract, it is stated, at $2,300, to pave Monroe St. W. H. Wiscombe, Comr. of Sts.

SPOKANE, WASH—Bids are asked until Sept. 7 for $49,800 in 8% paving bonds for the purpose of improving Riverside Ave. Geo. A. Liebes, Secy. Sinking Fund Comrs.

OAKLAND, CAL.—E. B. Stone has been awarded the contract to improve the San Leandro Road, at $7,108, and Gottlieb Schumacher has the contract to macadamize Fruitvale Ave., for $8,000, according to report. M. K. Miller, Supt. of Sts.

SAN FRANCISCO, CAL.—It is reported that San Bruno Ave. is to be graded and macadamized from the county line to Baden, three miles, at a cost of about $25,000. Thos. Ashworth, Supt. of Sts.

CORNWALL, ONT.—Bids are asked until Sept. 3 for constructing granolithic walks on four streets, about 29,000 sq. ft. Geo. S. Jarvis, Town Clk.

MANUFACTURING PLANTS.

WINSLOW, ME.—It is reported that the Hollingsworth & Whitney Co. expects to increase the capacity of its plant by the erection of a large pulp mill to cost about $250,000.

BROOKLYN, N. Y.—Plans are stated to have been completed for a 2-story brick and stone glass furnace and tinstamping plant, 200 × 400 ft. Arch., H. L. Spicer, 326 56th St., Brooklyn.

NIAGARA FALLS, N. Y.—The entire plant of the Niagara Engineering Works was destroyed by fire Aug. 27, causing a loss of about $25,000. The plant was owned and operated by A. W. & F. R. French.

CHESTER, PA.—The Standard Plaster Board Co., of Philadelphia, is said to have purchased the plant of the Marsden Co. in Chester. A number of improvements are contemplated to cost from $10,000 to $15,000, including the construction of a new wharf and the installation of new machinery.

AKRON, O.—The plant of the Collins Buggy Co. was burned Aug. 27, causing a loss of about $15,000; fully insured.

LORAIN, O.—Reports state that the Frank-Kneeland Machine Co., of Pittsburg, has been awarded the contract by the Lorain Steel Co. for building a 38-inch blooming mill with tables and manipulator. It will weigh about 1,000,000 lbs., and is to be completed in 100 days.

PORTSMOUTH, O.—B. F. Vincent, Secy. Burgess Steel & Iron Works, Portsmouth, informs us that the Ritter-Conley, of Allegheny, Pa., and the Portsmouth Structural Steel & Iron Co., of Portsmouth, have been awarded contracts for the erection of the proposed addition to his company's plant.

DECATUR, ILL.—We are informed that contracts have all been let for the erection of a 4-story brick building to be used for a power plant by Suffern, Hunt & Co. A 350-HP. engine will be installed.

ABERDEEN, WASH.—Reports state that the Western Cooperage Co. will rebuild its plant recently destroyed by fire, including a mill building, 100 × 38 ft., a warehouse and dry house, 50 × 100 ft., and a boiler house, 30 × 120 ft.

LOS ANGELES, CAL.—The Los Angeles Soap Co.'s plant was burned Aug. 29, causing a loss of about $80,000.

VICTORIA, B. C.—The Victoria Chemical Works were partly destroyed by fire Aug. 16, causing a reported loss of $25,000.

GAS PLANTS.

HOPE VALLEY, R. I.—It is reported that the erection of an acetylene gas plant in this town is contemplated.

SYRACUSE, N. Y.—The Syracuse Gas Co. has begun to lay natural gas mains in this city, and it is said that a connection will be made with the Baldwinsville main if the natural gas wells in that village prove to be of sufficient size.

PHILADELPHIA, PA.—The United Gas Improvement Co., Drexel Bldg., is taking bids on a boiler and pump house building, to be erected at the Point Breeze works, according to reports.

DELAWARE, O.—Bids are asked until Sept. 3 for lighting this city with gas or electricity. Address the mayor.

SAULT STE. MARIE, MICH.—Peter Primeau, of Marquette, Mich., has asked for a 30-year franchise for the operation of a gas plant to be erected in this city; estimated cost, $50,000.

MASON CITY, IA.—Reports state that a gas plant will be constructed at Mason City, and that Mrs. M. I. Clark is the head of the enterprise.

AINSWORTH, NEB.—A company is said to have been formed in this city to finance the erection of an acetylene gas plant by H. O. Mead, of Omaha, Neb. Pres., S. Backey; Secy., R. S. Rising.

SAN BERNANDINO, CAL.—B. C. Roos is reported to be contemplating the erection of an electric and gas plant in this city.

EDINBURGH, SCOTLAND.—Bids are asked by the Edinburgh and Leith corporations' gas commissioners, until Oct. 17, for the excavation, concretor, bricklayer and mason's work in connection with the construction of a brick and puddle gasholder tank, 252 ft. 6 in. diameter by 37 ft. deep, at their new works at Granton, near Edinburgh. W. R. Herring, Edinburgh.

NEW COMPANIES.—Enterprise Gas Co., McKean county, Pa.; $40,000, with $4,000 paid in; to operate in Hamlin and Sergeant townships; Edwin S. Tait, Frank P. Hazeltoo, Frank Fessenmeyer, Bradford, Pa.; J. D. Westcott, Union City, Pa.; M. D. Carmody, Limestone, N. Y.

Oxygen Gas Co., Chicago, Ill.; $5,000,000, with $50 paid in; to manufacture oxygen and illuminating gas, machinery, etc.; J. D. Springer, Wm. Garrett, Jr., H. L. Keck, H. S. Backus, Wm. H. Clark, Chicago, Ill.

Dewey Oil & Gas Co., St. Marys, O.; $50,000, with $1,000 paid in; to bore for oil and gas; Frank Konley, C. J. Macomber, John Salmon, Edgar Botkin and H. H. Fenton, all of St. Marys, O.

Breckenridge Natural Gas Co., Natrona, Pa.; $1,500, with $150 paid in; to operate in Harrison township, Allegheny county, Pa.; G. B. Findlay, Treas.; J. R. Taylor, both of Freeport, Pa.; H. M. Breckenridge, W. B. Ekas and C. M. Maurhoff, of Natrona.

MISCELLANEOUS CONTRACTS.

DREDGING.—Oakland, Cal.—Bids will be asked at once by the board of public works for dredging Lake Merritt at a cost of about $80,000, according to reports.

PARK BONDS.—Spokane, Wash.—Bids are asked until Oct. 12 for the purchase of $10,000 of brick bonds. Geo. A. Liebes, Secy. Comn.

FIRE ALARM SYSTEM.—Poughkeepsie, N. Y.—It is said that the Gamewell fire alarm system is to be installed in Poughkeepsie with 30 boxes at a cost of $6,000.

DOCK, ETC.—Brockville, Ont.—It is stated that the Canadian Pacific Ry. Co. will build a new dock here besides making other improvements to its property; estimated cost, $50,000.

FIRE HOSE NOZZLES.—New York, N. Y.—Bids are asked until Sept. 7 for furnishing the fire department with two 5-in. and one 8-in. rotary nozzles. J. J. Scannell, Comr., 157 East 67th St.

REPAIRING STEAMER.—New York, N. Y.—Bids are asked until Sept. 12 for repairing the steamer "Minnahannock;" two sureties of $3,500 each. F. J. Lantry, Comr. Correction, 148 East 20th St.

DREDGING. — Philadelphia, Pa. — Bids are asked until Sept. 10 for dredging and filling at the League Island navy yard, Philadelphia. M. T. Endicott, Ch. Bureau Yards and Docks, Washington, D. C.

SAND, STONE, ETC.—Point Wilson, Wash.—Bids are asked until Sept. 13 for furnishing sand and gravel or broken stone at Point Wilson. Capt. Harry Taylor, U. S. Engr., Burke Bldg., Seattle, Wash.

QUAY WALL.—San Francisco, Cal.—Bids are asked until Sept. 24 for extending the quay wall at the Mare Island navy yard, San Francisco. Mordecai T. Endicott, Chn. Bureau Yards & Docks, Washington.

DREDGING.—Buffalo, N. Y.—The mayor and the board of public works are considering plans prepared by City Engineer Bardol for dredging the Buffalo River at South Buffalo in order to prevent the spring floods.

REMOVING WRECK.—St. Joseph, Mich.—Bids are asked until Sept. 17 for removing the wreck of the steamer "City of Duluth" lying in the entrance to the harbor. Lt.-Col. G. J. Lydecker, U. S. Engr., Detroit, Mich.

DREDGING.—Troy, N. Y.—Local papers state that the Delaware & Hudson R. R. Co. contemplates dredging the river from the 25d St. Ferry slip to the Delaware & Hudson bridge and between Centre Island and the company's docks.

PILES, PIER, ETC.—Philadelphia, Pa.—Bids are asked until Sept. 6 for furnishing a guard rail for permanent track, sinking test piles for a canal sewer, constructing superstructure on Arch St. pier, etc. T. M. Thompson, Dir. Pub. Wks.

MASONRY DAM FOUNDATION.—Columbus, O.—Bids are asked until Sept. 10 for furnishing the labor and materials and for constructing the foundation and lower portion of the concrete masonry dam, as described in our advertising columns. Dir. Pub. Wks., F. A. Jacobs; Clk., Jas. A. Fanning.

RECREATION PIER.—Brooklyn, N. Y.—Bids are asked by the commissioners of docks and ferries, Pier A, North River, Manhattan, until Sept. 6 for completing the recreation pier at the foot of North 2d St., Brooklyn. About 188,000 lbs. of structural steel will be required; estimated cost, $12,000.

DAM.—West Superior, Wis.—Press reports state that Judge Vinje has decided the case of the Brule River improvement Co. against the Mills & Le Claire Lumber Co. in favor of the defendant. The plaintiff asked the court to permanently restrain the defendant from building a dam across the Brule River for logging purposes. The judge allowed the construction of a dam of 7½ ft. head, with proper sluices.

JETTY WORK.—Ocean City, Md.—Press reports state that the council has accepted plans for a jetty north of the Atlantic Hotel to low-water mark, a distance of 150 ft. from the board walk. Piles will be driven to form the jetty, which is an experiment to find out exactly how the surf will affect the beach at that point. If the venture is successful in building up the beach, it is proposed to put in a series of jetties along the whole front of the town.

CABLE.—Sydney, N. S. W.—Press reports state that Sir Hugh Muir Nelson, Premier of Queensland; Sir George H. Reid, Premier of New South Wales, and Sir George Turner, Premier of Victoria, met in conference on Aug. 20, and discussed plans for a Pacific cable. They decided to make the definite offer that if Great Britain and Canada, collectively, would guarantee five-ninths of the cost of laying

the new cable they would recommend to their respective legislatures to contribute one-ninth each, asking New Zealand to contribute the remaining one-ninth.

DRAINAGE CANAL, ETC.—Florida.—Press reports state that a company with $2,000,000 capital has been formed to reclaim the Florida Everglades. It proposes to construct a canal system 144 miles long which will drain 800,000 acres of land in southeastern Florida, which it has secured from the state. Among the directors of the company are J. R. Parrott, Vice-Pres. Flagler Ry. System, and James A. Ingraham, Land Comr. Flagler Ry. System. It is understood that the company is to begin operations immediately, under the title of the Florida Coast Drainage & Sugar Co.

COFFERDAM.—Pittsburg, Pa.—The following bids were received by Maj. Chas. F. Powell, U. S. Engr., Aug. 25 for the construction of a coffer and the building of a part of the chanoine dam at the Herrs Island lock in the Allegheny River: W. W. Hegeman & Co., New York, $57,735; W. Bradley & Co., Oswego, N. Y., $62,510; I. V. Hoag, Jr., Allegheny, $74,455; McIlvain & Unkefer, Pittsburg, $75,526; James Jackson, Pittsburg, $78,105; C. W. Friend, Pittsburg, $78,923; Jutte & Foley, Pittsburg, $80,339; Keeling & Ridge, Pittsburg, $81,647; A. W. McDonald Pittsburg, $89,560.

CONTRACT PRICES.

BRICK PAVING.—Chillicothe, O.—The following bids were received Aug. 13 for brick paving, as advertised in Engineering News; contract awarded Pfaff, Ringwald & Smith; Wm. H. Luchtenberg put in a bid of 12 cts. for tar filler:

Bids Received at Chillicothe, O., Aug. 13, 1898, for Brick Paving.

Quantities.		D. E. Sullivan, Columbus.	Pfaff, Ringwald & Smith, Chillicothe.	J. A. Kelley, Portsmouth.	E. M. Costello, Cincinnati.	Monroe & Bryan, Portsmouth.	Wm. H. Luchtenberg, Columbus.
Curb..	Redressing	1,000 lin. ft..	$0.20	$0.20	$0.15	$0.14	$0.10
	Dayton limestone	3,370 lin. ft..	.62	.58	.55	.60	...
	Osgood limestone		...	...	.61	...	.55
	Berea stone		.42	.44	...	.54	.45
	Cement		.27	.26	.40	.26	.45
	Cement circular		.37	...	.70	.37	.65
	Dayton limestone circular	243 lin. ft..	1.10	1.14	.98	.78	...
	Osgood limestone circular		...	...	1.09	...	...
	Berea stone circular		.53	.88	...	...	1.20
Excavation		6,200 cu. yds.	.26	.27	.25	.30	.68
Concrete foundation		2,350 " "	1.90	1.39	3.10	2.37	.24
Screened gravel foundation		3,166 " "	.75	.47	.70	.76	2.94
Kinds of block..	Athens brick or block	14,120 sq. yds.	.87	...	...	...	.58
	Harris		.88	...	...	...	.42
	Sciotoville and Union		.89	.77	.68	...	.78
	Portsmouth		.92	...	.67	...	.77
	Middleport		.89	...	.67	.74	...
Repairing pavement, a sq. yd.			.04	.50	1.25	.50	.09
Bituminous pont. filler, a sq. yd.		14,120 sq. yds.	.16	.14	.15	.11	.145
Cement filler, a sq. yd.			.11	.07	.14	.13	.12
Sand filler, a sq. yd.			.04	.03	.05	.08	.02
Total, limestone curb, concrete foundation, cement filler			$22,496	$19,268	$22,660	$22,065	$23,583

BRICK PAVING.—Urbana, Ill.—We are informed that the following bids were received Aug. 17, 1898, for brick paving, curbing, etc.:

Bidder.	Excavation, 3,000 cu. yds.	Concrete curb and gutter, 3,320 lin. ft.	Brick pavement, 5,350 sq. yds.	Total.
J. A. Foster & Co., Attica, Ind.	$0.20	$0.48	$1.21	$8,747
Ebert & Shanahan, Quincy, Ill.	.25	.50	1.29	9,241
J. W. Stipes, Urbana, Ill.	.22	.48	1.20	8,762
E. J. Hastings, Crawfordsville, Ind.	.225	.525	...	2,418
P. E. Taintor, Springfield, Ill.	.25	.48	...	2,344

*On concrete.

LEVEE WORK.—Memphis, Tenn.—J. P. Parker, Pres. Tensas Levee District, awarded the contract Aug. 17, 1898, for enlarging the Arkansas City Loop Levee to J. B. Lewis at 14⅞ cts. a cu. ft.

BRICK PAVING.—Kewanee, Ill.—The following bids were received Aug. 2 for brick paving in Tremont St.:

Bids Received at Kewanee, Ill., Aug. 2, 1898, for Brick Paving.

Quantities.		A. E. Rutledge, Rockford, Ill.	J. A. Foster & Co., Attica, Ind.	Flick & Johnson, Davenport, Ia.	Edwards & Walsh Con. Co., Davenport, Ia.	J. B. McAuley, Galesburg, Ill.	Smith, Moss & Brown, Chicago, Ill.
Excavation	9,000 cu. yds.	$0.16	$0.27	$0.15	$0.18	$0.24	$0.21
Filling (borrowed material)	500 " "	.10	.27	.15	.18	.24	.30
Curbing	Berea sandstone set in place	.44*	.47	.44*	.45*	.42	.46*
	Limestone set in place	.37†	...	.37†	.39†	...	.39†
	Concrete	.40	.43	.41	.41	.47	.42
Concrete combined curb and gutter	8,266 lin. ft..	.48	.59	.48	.49	.55	.50
Brick pavement	8,266 " "	1.54	1.64	1.52	1.525	1.59	1.55
	20,240 sq. yds.						
Total, using combined curb and gutter		$36,627	$40,470	$36,157	$36,626	$39,008	$38,945

*Curbing 5 × 24 ins. †Berea curbing 4 × 24 ins.

DREDGING.—Montgomery, Ala.—Maj. F. A. Mahan, U. S. Engr., informs us that the following bids were received Aug. 20 for dredging: National Dredging Co., Wilmington, Del., 17.9 cts. a cu. yd. for 2,300 cu. yds. of dredging, etc., a day; Rittenhouse-Moore Dredging Co., Mobile, Ala., 19.5 cts. a yd. for 3,000 yds. a day.

MACADAM PAVING.—Lansingburg, N. Y.—The following bids were recently received by the village trustees for macadam paving in Fifth Ave.: Henry Dumary, Albany—Excavating, $3 a cu. yd.; granite curb, $2.25 a lin. ft.; kosmocrete curb, $1.50 a lin. ft.; bluestone curb, $2.50 a lin. ft.; 8-in. macadam pavement, complete, 76 cts. a sq. yd. Thos. H. Karr, Troy—Excavating, 10 cts; granite curb, $1.40; kosmocrete curb, $1.50; bluestone curb, $1; macadam paving, 75 cts. a yd (awarded contract). Troy Public Works Co.—Excavation, $4; granite curb, $1.40; kosmocrete curb, $1.50; bluestone curb, $1.40; macadam paving, 85 cts. Crutchley & Murray, Lansingburg.—Excavation, $2; granite curb, $1.19; kosmocrete curb, $1.45; bluestone curb, $1.13; macadam paving, 79 cts. Donnovan Bros., Staten Island.—Excavation, $5; granite curb, $2; kosmocrete curb, $1.75; bluestone curb, $2; macadam paving, $1.35.

PIPE SEWER.—Schenectady, N. Y.—Henry Furman has been awarded the contract at 38 cts. a ft. for laying 3,000 ft. of 8-in. sewer pipe. S. B. Sebring, Cy. Engr.

LEVEE WORK.—West Memphis, Tenn.—Harry N. Pharr, Ch. Engr. St. Francis Levee District, informs us that the bids received Aug. 3, 1898, for levee work, were rejected, and will not be readvertised this season; the work was to be paid in certificates of levee board bearing 6%, and payable $40,000 a year, beginning with 1902. The bids are as follows: Keeney & Bailey, Cairo, Ill., Miles 141 to 144, 188,116 cu. yds., 14 cts. a cu. yd.; Miles 147 to 149, 168,666 cu. yds., 15 cts.; W. J. Bentley & Co., New Orleans, La., Miles 141 to 144, 14 cts.; 130 to 136, 455,008 cu. yds., 17.6 cts.; 136 to 141, 529,350 cu. yds., 22.9 cts.; 144 to 147, 373,800 cu. yds., 21.9 cts.; 147 to 151, 348,800 cu. yds., 18.9 cts.; not less than one nor more than two divisions to be awarded; R. M. Quigley & Co., St. Louis, Mo., Miles 127½ to 151½, 2,093,521 cu. yds., 17.93 cts.

BRICK SIDEWALK.—Baltimore, Md.—The following bids were received Aug. 3, 1898, for constructing a brick sidewalk around Collington Square, about 28,000 sq. ft., being covered; all bidders of Baltimore: C. A. Hook, 7.3 cts.; W. H. Doe (accepted), 6⅞ cts.; W. E. Morris, 8¼ cts.; C. W. Kraft, 9¼ cts.

SEWER MATERIAL.—Baltimore, Md.—The following contracts were let Aug. 3, 1898, for furnishing materials for the proposed Harris Creek sewer, all contractors of Baltimore: American Portland cement, 1,375 bbls., National Building Supply Co., $1.85 a bbl. Rubble stone, 900 cu. yds., I. H. Peddicord & Son, $1.60 a cu. yd. Sand, 395 cu. yds., B. Noha, 65 cts. a yd. Hand-made brick, 91,000, Smith & Schwarz Brick Co., $6.22 a M.; vitrified brick, 15,000, B. Wallis & Co., $19 a M.; machine-made brick, 120,000, J. R. Busey & Son, $6.90 a M.

PIPE SEWER.—Nanticoke, Pa.—The council recently received the following bids for trenching, backfilling, laying and cementing about 2,500 ft. of sewer pipe in West Church St.: Rebesher & Edmunds, 6 ft. and under, 18 cts.; 6 ft. to 7 ft., 19 cts.; 7 ft. to 9 ft., 25 cts.; laying and cementing, 6 cts.; rock, 97 cts. a cu. yd. G. S. Post & Co., Wilkes-Barre, 6 ft. and under, 36 cts.; 6 to 7½ ft., 40 cts.; 7½ to 9 ft., 54 cts.; 9 to 11 ft., 65 cts.; 11 to 14 ft., 79 cts.; rock, $1.25 a cu. yd.; shale rock, 68 cts. a cu. yd. Lyman E. Carle, Ashley, 6½ ft. and under, 27 cts.; 6½ to 7½ ft., 40 cts.; 7½ to 9 ft., 55 cts.; rock, 80 cts. a cu. yd.; hard pan, 70 cts. a cu. yd. Coon & Co., Wilkes-Barre, 6 ft. and under, 27 cts.; 6 to 8 ft., 33 cts.; 8 to 10 ft., 45 cts.; 10 to 12 ft., 70 cts.; rock, 80 cts. a cu. yd. Philpin & Lueder, 6 ft. and under, 16 cts.; 6 to 7½ ft., 20 cts.; 7½ to 9 ft., 25 cts.; 9 to 11 ft., 40 cts.; 11 to 14 ft., 74 cts.; 14 to 18 ft., $1; rock, shale and slate, $1.05 a cu. yd.

LEVEE WORK.—New Orleans, La.—The following are the lowest bids recently received by the board of state engineers for 2,500 cu. yds. of work on the Cairo levee, 10,000 cu. yds. on the Taylor levee and 145,000 yds. on the Choctaw Bayou levee: J. Thomas, 9 cts., 8.25 cts. and 9.33⅓ cts. for the Cairo, Taylor and Choctaw Bayou levees, respectively, and W. M. Rushing, 7.90 cts. on the Taylor levee.

ASPHALT REPAIRING.—Macon, Ga.—Local papers state that the council will award a contract to the Southern Asphalt Paving Co., at 6 cts. a sq. yd., for repairing the asphalt pavement of the city as may be required.

WATER PIPE.—Seattle, Wash.—A. E. Kirk has been awarded the contract for furnishing 1,000 ft. of 20-in. cast-iron water pipe, at $23.75 a ton. The other bids were as follows: W. D. Hofius & Co., $26; Caldwell Bros., Tacoma, $26.75; E. A. Hanbach Co., $26.50.

BRICK PAVING.—Binghamton, N. Y.—Jerome De Witt, Mayor, writes us that the contract for brick paving in Court St. has been let to Eugene Fee, at $1.72 a sq. yd.

BRICK SEWER.—Dallas, Tex.—We are informed that the following bids were received Aug. 18 for building a 7-ft. brick sewer through block 338: J. C. McCord, $7.75 a lin. ft.; concrete, $4.50 a cu. yd.; J. C. McCord, Jr., $6.75; concrete, $4; C. W. Olcott, 182 First Ave. (awarded contract), $5.91; concrete, $4.25.

ASPHALT BLOCK PAVING.—Sing Sing, N. Y.—The Hastings Pavement Co., New York, has been awarded the contract for paving Spring St., from Main St. to Waller Ave., at $2.25 a sq. yd., according to reports.

ENGINEERING MATERIAL PRICES.

TRACK MATERIALS—

New York—Angle bars, 1.05 cts. to 1.10 cts.; spikes, 1.40 cts. to 1.50 cts.; track bolts, hexagonal, 1.80 cts. to 1.85 cts.; square, 1.60 cts. to 1.75 cts.

Chicago—Angle bars, 1.10 cts. to 1.15 cts.; spikes, 1.50 cts. to 1.60 cts.; track bolts, hexagonal, 1.90 cts. to 2.00 cts.; square, 1.80 cts. to 1.90 cts.

RAILS, STEEL—

New York, new, $18.00 to $19.00; old iron, $11.00 to $11.50; old steel $9.00.

Chicago, new, $20.00 to $22.50; old iron, $12.00 to $12.50, steel, $10.00 to $11.00.

Pittsburg, new $18.00 to $19.00; old iron, $13.50 to $13.75; steel, $10.00.

STRUCTURAL STEEL—

New York—Beams, 1.40 cts. to 1.45 cts.; channels, 1.40 cts. to 1.45 cts.; tees, 1.45 cts. to 1.50 cts.; angles, 1.20 cts. to 1.25 cts.; rivets, 1.75 cts. to 1.85 cts.

Chicago—Beams, 1.35 cts. to 1.45 cts.; channels, 1.35 cts. to 1.45 cts.; tees, 1.40 cts. to 1.50 cts.; angles, 1.25 cts. to 1.35 cts.

Pittsburg—Beams, 1.15 cts. to 1.25 cts.; channels, 1.15 cts. to 1.25 cts.; tees, 1.15 cts. to 1.20 cts.; angles, 1.05 cts. to 1.15 cts.

PLATES AND SHEETS—

New York—Universal mill plates, 1.25 cts. to 1.30 cts.; tank, 1.35 cts. to 1.40 cts.; shell, 1.35 cts. to 1.40 cts.; flange, 1.60 cts. to 1.70 cts.; firebox, 2.25 cts. to 2.50 cts.

Chicago—Universal mill plates, 1.25 cts. to 1.30 cts.; tank, 1.25 cts. to 1.30 cts.; shell, 1.55 cts. to 1.65 cts.; flange, 1.30 cts. to 1.50 cts.; firebox, 1.75 cts. to 4.00 cts.; sheets, 2 cts. to 2.05 cts.

Pittsburg—Universal mill plates, 1.00 cts. to 1.10 cts.; tank, 1.10 cts. to 1.15 cts.; shell, 1.25 cts. to 1.35 cts.; flange, 1.10 cts. to 1.25 cts.; firebox, 2 cts. upwards; sheets 1.85 cts. to 2 cts.

MERCHANT STEEL—

Machinery, per lb., 1.60 cts. to 1.70 cts.

Tool, per lb., 5.50 cts. to 7 cts.

IRON—

Pig Iron:

New York—No. 1, $11.00 to $11.25; No. 2, $10.25 to $10.50.

Chicago—No. 1, $11.50 to $12.50; No. 2, $11.00 to $12.00.

Pittsburg—No. 1, $10.00 to $10.50; No. 2, $9.75 to $10.00.

Bar Iron:

New York, common, $1.07½ cts. to 1.10 cts.; refined, 1.15 cts. to 1.20 cts.

Chicago, common, 1.05 cts. to 1.07½ cts.; refined, 1.10 cts. to 1.20 cts.

Sheets:

Common American, per lb., 1.40 cts. to 2.50 cts.

Russia, per lb., 10½ cts. to 11 cts.

LUMBER—

New York:

Hemlock timber, 20 ft. and under, per M, $12.00 to $12.50.

Piling, Eastern spruce, 35 to 40 ft., 30 to 40% 12-in. butts, 4½ cts. to 4¾ cts.

Spruce, special cargoes, per M, $15.00 to $17.50.

Yellow pine, random cargoes, $14.50 to $17.00.

North Carolina pine, $2.25 to $2.40 advance over Norfolk rates.

San Francisco:

Oregon pine, per M, $15.50 to $17.50.

Redwood, per M, $17.00 to $19.00.

Redwood tank stock, up to 10 ft., $21.00 to $24.00.

GENERAL MATERIALS—

Lead, New York, 3.90 cts. to 3.95 cts.

Nails, Pittsburg, 1.40 cts.

Solder, per lb., 8¼ cts. to 11½ cts.

Spelter, per lb., 3.90 cts. to 4.00 cts.

Copper ingots, 11⅞ cts. to 12.00 cts.

Granite, rough, New York, cu. ft., 40 cts. to 50 cts.

Limestone, New York, cu. ft., 70 cts. to 80 cts.

Ohio freestone, New York, cu. ft., 85 cts. to 90 cts.

Slate, Penn. block, per square, $4.00 to $5.00.

White lead, American, per lb., 5½ cts. to 6 cts.

Lime, common state, per bbl., 70 cts.

INDUSTRIAL NOTES.

J. C. RODGERS & SON, contractors, have removed their offices from 8 Solingen Bldg., 138th St. and Mott Ave., to 340 East 125th St., New York.

THE PORTSMOUTH STRUCTURAL STEEL & IRON CO., Portsmouth, O., reports it is very busy at present, and that the number of orders on hand render additional help necessary.

TIPPETT & WOOD, Phillipsburg, N. J., has a contract to furnish to Silver Spring, Md., a suburb of Washington, D. C., Saratoga, N. Y., and Media, Pa., additional stand-pipes to the present water systems.

THE PITTSBURG BRIDGE CO., Pittsburg, of which Mr. Albert Price is Superintendent, has added to its shop equipment a No. 5 Hills & Jones combined machine for heavy punching, coping and framing beams and channels. The company has received a contract, through Mr. E. H. Connor, Fullerton Bldg., St. Louis, western agent, to build for the Central Lead Co. a steel head frame and tipple for its Theodora Shaft, at Flat River, Mo.

THE BETHLEHEM IRON CO., South Bethlehem, Pa., will make the forgings of the engine for the Boston Elevated Railway Co. The shaft is to be 27 ft. 10 ins. long, and 37 ins. in diameter, having a hole 17½ ins. in diameter throughout its length, and when completed will weigh, together with cranks and fly-wheel hub, upwards of 150,000 lbs. This will be assembled at the works of the Bethlehem Iron Co., and transported in its entirety by rail to Boston.

THE W. E. CALDWELL CO., 200 E. Main St., Louisville, Ky., reports a decided activity in its line at present. It manufactures water tanks and steel towers for their support, and is one of the oldest firms engaged in this business. It makes a specialty of furnishing outfits for fire protection to mills and manufactories, and also puts in water-works systems for private grounds and for small towns. Some of its recent water-works contracts are for the towns of Odell, Ill.; Minden, Ia.; Hyattsville, Md.; Middletown, R. I.; Clark's Summit, Pa.; Sea Side Park, N. J.; Jasper, Fla.; Ensley, Ala.; Theological Seminary, Va., etc. The tanks used for these outfits range from 25,000 to 100,000-gallons capacity, and the towers from 50 to 90 ft. in height. The company announces that its new catalogue contains many useful tables of information.

THE BERLIN IRON BRIDGE CO., East Berlin, Conn., has a contract to build a fire-proof boiler house for the estate of C. M. Robertson, Montville, Conn., which recently lost its former one by fire. It will consist of a steel frame work, brick side walls, and a roof of corrugated iron covering, laid on patent anti-condensation roof lining. The building will be 50 ft. square, divided by a corrugated iron partition through the center, forming boiler room and pump room, and ventilation will be obtained by monitors on the ridge of the roof, each having a sash on the side.—The Berlin Iron Bridge Co. has also received a contract from Sanderson & Porter, contractors for the Meriden & Compounce Electric R. R., to furnish several bridges and buildings on the line of this road, consisting of seven spans, varying in length from 10 to 65 ft.; a car barn, 50 × 100 ft., and a power house, 45 × 75 ft. The bridges will be of steel, and the buildings will have steel frames, brick side walls, and fire-proof roofs, the roof of the power house being covered with corrugated iron and lined with patent anti-condensation roof lining.

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